CANADIAN JOURNAL OF BIOCHEMISTRY

JOURNAL CANADIEN DE BIOCHIMIE

VOLUME 58, 1980

Author Index/Index des auteurs

Under each name are listed, in chronological order of publication, all articles in which an author has participated/ Chaque notice indique, dans l'ordre chronologique de publication, tous les articles auxquels l'auteur a participé

Adams, W.C.
Lipid involvement in oleoyl CoA desaturase activity of *Fusarium oxysporum* microsomes
ALAN C. WILSON, WYMAN C. ADAMS, and RICHARD W. MILLER 97

Addis, J.
Demonstration with monoclonal antibody of the glycoprotein nature of Thy-1.2 alloantigen
M. LETARTE, J. ADDIS, M.E. MACDONALD, A. BERNSTEIN, and PHIL LAKE 1026

Al-Jobore, A.
D-Glucose and D-gluconate transport in vesicles from *Pseudomonas putida*
AMEERA AL-JOBORE, G. MOSES, and N.F. TAYLOR 1397

An, G.
Identification and quantitation of elongation factor EF-P in *Escherichia coli* cell-free extracts
GYNHEUNG AN, BERNARD R. GLICK, JAMES D. FRIESEN, and M. CLELIA GANOZA 1312

Ananthanarayanan, V.S.
Antifreeze proteins from the shorthorn sculpin, *Myoxocephalus scorpius*: isolation and characterization
CHOY L. HEW, GARTH L. FLETCHER, and V.S. ANANTHANARAYANAN 377

Anastassiadis, P.A.
Glycosaminoglycans of tissues of the domestic fowl
KWET FANE NG KWAI HANG and PHOEBUS A. ANASTASSIADIS 319

Anastassiadis, P.A.
Studies on the in vivo uptake and incorporation of 1-^{14}C-labeled D-hexosamines in tissues, mucopolysaccharide–peptide complexes, and glycosaminoglycans of the domestic fowl
KWET FANE NG KWAI HANG and PHOEBUS A. ANASTASSIADIS 325

Anderson, W.A.
Yeast, rye, and calf histones. Similarities and differences detected by electrophoretic and immunological methods
ANNE TESSIER, BIRGITTE ROLAND, CLAUDE GAUTHIER, WILLIAM A. ANDERSON, and DOMINICK PALLOTTA 405

Ando, M.E.
Evidence for multiple forms of *p*-trifluoromethylbenzenesulfonyl-α-chymotrypsin
M.E. ANDO, J.T. GERIG, K.F.S. LUK, and D.C. ROE 427

Armstrong, J.B.
Lipid metabolism during embryonic and early postembryonic development of *Xenopus laevis*
MARY MES-HARTREE and JOHN B. ARMSTRONG 559

Arora, D.J.S.
The isolation and properties of a ribonuclease associated with influenza virus
D.J.S. ARORA, L. VINCENT, and J. HILL-SCHUBERT 67

Asher, C.J.
Jack bean urease (EC 3.5.1.5).II. The relationship between nickel, enzymatic activity, and the "abnormal" ultraviolet spectrum. The nickel content of jack beans
NICHOLAS E. DIXON, CARLO GAZZOLA, COLIN J. ASHER, DENNIS S.W. LEE, ROBERT L. BLAKELEY, and BURT ZERNER 474

Ashton, D.M.
Citrate transport in *Salmonella typhimurium*: studies with 2-fluoro-L-*erythro*-citrate as a substrate
D.M. ASHTON, G.D. SWEET, J.M. SOMERS, and W.W. KAY 797

Atkinson, B.G.
Thyroid hormone regulation of translation in tadpole tail muscle
MOHAMMED SALEEM and BURR G. ATKINSON 461

Atkinson, B.G.
M-line protein preparations from frog skeletal muscle: isolation and localization of an M-line protein and a 105 000 dalton polypeptide contaminant
Z.C. DHANARAJAN and BURR G. ATKINSON 516

Baker, R.R.
The fatty acid composition of lipids of neuronal and glial nuclear fractions isolated from 15-day-old rabbit cerebral cortex
R. ROY BAKER and HUU-YI CHANG 620

Banjo, B.
In cultured chick embryo fibrablasts the hexose transport components are not the 75 000 and 95 000 dalton polypeptides synthesized following glucose deprivation
CEDRIC A. ZALA, MILAGROS SALAS-PRATO, WING-TAT YAN, BATYA BANJO, and JAMES F. PERDUE **1179**

Barillari, G.
Occurrence of globulin-like migrating blood albumins, or GLIMBAL, in pathological rat and human sera
B. SILVESTRINI, P.G. NATALI, B. CATANESE, G. BARILLARI, and P. CORDIALI-FEI **89**

Beaumont, G.
ADP-ribosylation of rye histones
A. LAROCHE, J. PLANTE, G. BEAUMONT, and G.G. POIRIER **692**

Bégin-Heick, N.
Adenylate cyclase in lean and obese (ob/ob) mouse epididymal white adipocytes
NICOLE BÉGIN-HEICK **1033**

Behar-Bannelier, M.
Effects of acute hepatic ischemia on the electrophoretic patterns of the polypeptides and phosphopolypeptides of the microsomal membrane fraction of rat liver
MONIQUE BEHAR-BANNELIER, LES PINTERIC, and ROBERT K. MURRAY **1039**

Belch, A.
N-Trifluoroacetyladriamycin-14-valerate and adriamycin induced DNA damage in the RPMI-6410 human lymphoblastoid cell line
L. BROX, B. GOWANS, and A. BELCH **720**

Bernstein, A.
Demonstration with monoclonal antibody of the glycoprotein nature of Thy-1.2 alloantigen
M. LETARTE, J. ADDIS, M.E. MACDONALD, A. BERNSTEIN, and PHIL LAKE **1026**

Betz, T.W.
Correlation of chromatin composition with metabolic changes in nuclei of primitive erythroid cells from chicken embryos
MICHAEL K. URBAN, JAMES M. NEELIN, and THOMAS W. BETZ **726**

Bewick, M.A.
Localization of the dicarboxylate binding protein in the cell envelope of *Escherichia coli* K12
MARY A. BEWICK and THEODORE C.Y. LO **885**

Bhattacharjee, A.K.
The R-type lipopolysaccharides of *Neisseria meningitidis*
HAROLD J. JENNINGS, APURBA K. BHATTACHARJEE, LENNART KENNE, C. PAUL KENNY, and GERALD CALVER **128**

Biro, G.P.
Membrane changes induced by early myocardial ischemia in the dog
S.C. VASDEV, G.P. BIRO, R. NARBAITZ, and K.J. KAKO **1112**

Blakeley, R.L.
Jack bean urease (EC 3.5.1.5).I. A simple dry ashing procedure for the microdetermination of trace metals in proteins. The nickel content of urease
NICHOLAS E. DIXON, ROBERT L. BLAKELEY, and BURT ZERNER **469**

Blakeley, R.L.
Jack bean urease (EC 3.5.1.5).II. The relationship between nickel, enzymatic activity, and the "abnormal" ultraviolet spectrum. The nickel content of jack beans
NICHOLAS E. DIXON, CARLO GAZZOLA, COLIN J. ASHER, DENNIS S.W. LEE, ROBERT L. BLAKELEY, and BURT ZERNER **474**

Blakeley, R.L.
Jack bean urease (EC 3.5.1.5).III. The involvement of active-site nickel ion in inhibition by β-mercaptoethanol, phosphoramidate, and fluoride
NICHOLAS E. DIXON, ROBERT L. BLAKELEY, and BURT ZERNER **481**

Blakeley, R.L.
Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors
NICHOLAS E. DIXON, JOHN A. HINDS, ANN K. FIHELLY, CARLO GAZZOLA, DONALD J. WINZOR, ROBERT L. BLAKELEY, and BURT ZERNER **1323**

Blakeley, R.L.
Jack bean urease (EC 3.5.1.5). V. On the mechanism of action of urease on urea, formamide, acetamide, *N*-methylurea, and related compounds
NICHOLAS E. DIXON, PETER W. RIDDLES, CARLO GAZZOLA, ROBERT L. BLAKELEY, and BURT ZERNER **1335**

Boggs, J.M.
Review: Intermolecular hydrogen bonding between lipids: influence on organization and function of lipids in membranes
JOAN M. BOGGS **755**

Bottom, C.B.
Structure and composition of the alkali-insoluble cell wall fraction of *Coprinus macrorhizus* var. *microsporus*
CAREY B. BOTTOM and DONALD J. SIEHR **147**

Bottom, C.B.
Erratum: Structure and composition of the alkali-insoluble cell wall fraction of *Coprinus macrorhizus* var. *microsporus*
CAREY B. BOTTOM and DONALD J. SIEHR **1311**

Boulanger, Y.
Multiple binding sites for local anesthetics in membranes: characterization of the sites and their equilibria by deuterium NMR of specifically deuterated procaine and tetracaine
YVAN BOULANGER, SHIRLEY SCHREIER, LEONARD C. LEITCH, and IAN C.P. SMITH **986**

Branton, P.E.
Protein phosphorylation and the proliferation of chick embryo fibroblasts: analysis by *in vitro* phosphorylation using isolated plasma membranes and whole cell homogenates
PHILIP E. BRANTON **30**

Breckenridge, W.C.
Reconstitution of lipoproteins. I. Lipid–protein interaction of high density apoproteins, purified apoA-I and apoA-II with dimyristoyl-lecithin and dimyristoyl-lecithin:cholesterol vesicles studied by isomeric spin-labelled lecithins
D.J. VAUGHAN, W.C. BRECKENRIDGE, and N.Z. STANACEV **581**

Breckenridge, W.C.
Reconstitution of lipoproteins. II. Lipid–protein interaction between dimyristoyl-lecithin and dimyristoyl-lecithin:cholesterol vesicles and purified apolipoprotein C-I and C-III_2 studied by isomeric spin-labelled lecithins
D.J. VAUGHAN, W.C. BRECKENRIDGE, and N.Z. STANACEV **592**

Bridger, W.A.
The kinetic properties of phosphoenolpyruvate carboxykinase of *Escherichia coli*
ANITA KREBS and WILLIAM A. BRIDGER **309**

Brosnan, J.T.
Renal phosphoenolpyruvate carboxykinase during perturbations of acid–base homeostasis in rats. Immunochemical studies
DAVID M. PARRY and JOHN T. BROSNAN **1298**

Brown, I.R.
Characterization of mononucleosomes and associated glycoproteins from Ehrlich ascites tumour cells
BRIAN L.A. MIKI, JAMES W. GURD, and IAN R. BROWN **1261**

Brox, L.
N-Trifluoroacetyladriamycin-14-valerate and adriamycin induced DNA damage in the RPMI-6410 human lymphoblastoid cell line
L. BROX, B. GOWANS, and A. BELCH **720**

Bruce-Robertson, A.
Hepatotrophic effects of insulin on glucose, glycogen, and adenine nucleotides in hepatocytes isolated from fed adult rats
KHURSHEED N. JEEJEEBHOY, JOSEPH HO, RAJNI MEHRA, and ALAN BRUCE-ROBERTSON **1004**

Bruns, L.
Enzymatic sulfation of steroids. XI. The extensive purification and some properties of hepatic sulfotransferase III from female rats
SANFORD S. SINGER and LAWRENCE BRUNS **660**

Buckley, J.T.
Identification and characterization of outer membrane fragments released by *Aeromonas* sp.
S. MACINTYRE, T.J. TRUST, and J.T. BUCKLEY **1018**

Bunting, J.W.
Specificity of xanthine oxidase for nitrogen heteroaromatic cation substrates
JOHN W. BUNTING, KEITH R. LADEROUTE, and DONALD J. NORRIS **49**

Bunting, J.W.
The pH dependence of xanthine oxidase catalysis in basic solution
JOHN W. BUNTING, KEITH R. LADEROUTE, and DONALD J. NORRIS **394**

Burrow, G.N.
Synthesis of very high molecular weight thyroglobulin in three heterologous systems
MARGARET C. EGGO and GERARD N. BURROW **446**

Burtnick, L.D.
Protection of actin against proteolysis by complex formation with deoxyribonuclease I
L.D. BURTNICK and K.W. CHAN **1348**

Calver, G.
The R-type lipopolysaccharides of *Neisseria meningitidis*
HAROLD J. JENNINGS, APURBA K. BHATTACHARJEE, LENNART KENNE, C. PAUL KENNY, and GERALD CALVER **128**

Campbell, I.M.
The effect of polypeptide–lipid interactions on the ultraviolet spectrum of the olefinic bonds of the lipid
IAN M. CAMPBELL and ASHA B. PAWAGI **345**

Carroll, K.K.
Properties of a dolichol phosphokinase activity associated with rat liver microsomes
JACK W. RIP and KENNETH K. CARROLL **1051**

Castañeda, M.
Subunit structure of *Trypanosoma cruzi* chromatin
JULIETA RUBIO, YOLANDA ROSADO, and MARIO CASTAÑEDA **1247**

Catanese, B.
Occurrence of globulin-like migrating blood albumins, or GLIMBAL. in pathological rat and human sera
B. SILVESTRINI, P.G. NATALI, B. CATANESE, G. BARILLARI, and P. CORDIALI-FEI **89**

Cates, G.A.
Myogenesis of normal and dystrophic chick embryonic skeletal muscle cells *in vitro*: biosynthesis of plasma membrane proteins
PAUL C. HOLLAND, GEORGE A. CATES, BYRON S. WENGER, and BARBARA L. RANEY **1156**

Cavadore, J.-C.
Calmodulin-dependent myosin light chain kinases from cardiac and smooth muscle: a comparative study
MICHAEL P. WALSH, JEAN-CLAUDE CAVADORE, BERNARD VALLET, and JACQUES G. DEMAILLE **299**

Chalifour, R.J.
Phosphatidylglycerol formation via transphosphatidylation by rat brain extracts
ROBERT J. CHALIFOUR, TAKAO TAKI, and JULIAN N. KANFER **1189**

Chan, K.W.
Protection of actin against proteolysis by complex formation with deoxyribonuclease I
L.D. BURTNICK and K.W. CHAN **1348**

Chang, H.
The fatty acid composition of lipids of neuronal and glial nuclear fractions isolated from 15-day-old rabbit cerebral cortex
R. ROY BAKER and HUU-YI CHANG **620**

Cheema-Dhadli, S.
Hydrocarbon specificity for transport on the tricarboxylate transporter of rat liver mitochondria
S. CHEEMA-DHADLI, M.L. HALPERIN, P.R. DUPERROUZEL, and C.C. LEZNOFF **804**

Chevrier, P.
Impairment by covalent modification of the ability of *Phaseolus vulgaris* phytohemagglutinin to stimulate cultured human lymphocytes: a comparison of different forms of covalent modification
GILLES DUPUIS, SYLVIE CLAIROUX-MOREAU, and PIERRE CHEVRIER **137**

Child, P.
Uptake and transport of sterols by isolated villus cells of rat jejunum
P. CHILD and A. KUKSIS **1215**

Chiu, S.S.
Rearrangements and reconstitution of mononucleosomes as monitored by thermal denaturation measurements
SUSAN S. CHIU, KAY P. LEE, and PETER N. LEWIS **73**

Chrétien, M.
Two large glycoprotein fragments related to the NH_2-terminal part of the adrenocorticotropin–β-lipotropin precursor are the end products of the maturation process in the rat pars intermedia
P. CRINE, N.G. SEIDAH, L. JEANNOTTE, and M. CHRÉTIEN **1318**

Claeyssens, M.
β-D-Xylosidase from *Penicillium wortmanni*: binding and hydrolysis of alkyl and aryl 1-oxygen and 1-thio-β-D-xylopyranosides
F. DELEYN, M. CLAEYSSENS, and C.K. DE BRUYNE **5**

Clairoux-Moreau, S.
Impairment by covalent modification of the ability of *Phaseolus vulgaris* phytohemagglutinin to stimulate cultured human lymphocytes: a comparison of different forms of covalent modification
GILLES DUPUIS, SYLVIE CLAIROUX-MOREAU, and PIERRE CHEVRIER **137**

Clairoux-Moreau, S.
Binding of chemical derivatives of *Phaseolus vulgaris* phytohemagglutinin to pig spleen lymphocytes
GILLES DUPUIS and SYLVIE CLAIROUX-MOREAU **399**

Cockburn, E.
Glucagon from the bovine fetal pancreas: chromatographic and electrophoretic characterizations of high molecular weight immunoreactive species
A.K. TUNG, J.L. RUSE, and E. COCKBURN **707**

Cook, H.W.
Metabolism and positional distribution of isomers of 18-carbon dienoic fatty acids containing *trans* and *cis* double bonds by developing rat brain
HAROLD W. COOK **121**

Coolbear, K.P.
Differential scanning calorimetric studies of the thermotropic phase behaviour of membranes composed of dipalmitoyllecithin and mixed-acid unsaturated lecithins
P.J. DAVIS, K.P. COOLBEAR, and K.M.W. KEOUGH **851**

Coomans, R.
Etude conformationnelle par résonance magnétique nucléaire du carbone 13 de peptides à activité antalgique
ROBERT RENÉ SMOLDERS, ROLAND COOMANS, FRANÇOISE JACQUEMOTTE, YVES VAN HAVERBEKE, ANDRÉ MAQUESTIAU et ROBERT MULLER **1241**

Cordiali-Fei, P.
Occurrence of globulin-like migrating blood albumins, or GLIMBAL, in pathological rat and human sera
B. SILVESTRINI, P.G. NATALI, B. CATANESE, G. BARILLARI, and P. CORDIALI-FEI **89**

Coutlée, F.
Effect of phosphoenolpyruvate carboxykinase inhibition on renal metabolism of glutamine: in vivo studies in the dog and rat
P. VINAY, F. COUTLÉE, P. MARTEL, G. LEMIEUX, and A. GOUGOUX **103**

Couture, R.
Synthesis of peptides by the solid-phase method. V. Substance P and analogs
A. FOURNIER, R. COUTURE, J. MAGNAN, M. GENDREAU, D. REGOLI, and S. ST-PIERRE **272**

Crine, P.
Two large glycoprotein fragments related to the NH_2-terminal part of the adrenocorticotropin–β-lipotropin precursor are the end products of the maturation process in the rat pars intermedia
P. CRINE, N.G. SEIDAH, L. JEANNOTTE, and M. CHRÉTIEN **1318**

Cullis, P.R.
Phospholipids and membrane transport
P.R. CULLIS, B. DE KRUIJFF, M.J. HOPE, R. NAYAR, and S.L. SCHMID **1091**

Cushley, R.J.
^{13}C and ^{31}P nuclear magnetic resonance of lipid dispersions from human aorta
ROBERT J. CUSHLEY, BRUCE J. FORREST, ASHOK K. GROVER, and STEPHEN R. WASSALL **206**

Dagher, G.
A Na^+,K^+ co-transport assay for essential hypertension
GEORGES DAGHER and RICARDO P. GARAY **1069**

Dardick, I.
Relationship between chromatin structure and replication in mouse L-cells
ROSE SHEININ, G. SETTERFIELD, I. DARDICK, G. KISS, and M. DUBSKY **1359**

Dass, P.D.
Renal glutamine utilization: glycylglycine stimulation of γ-glutamyltransferase
T.C. WELBOURNE, P.D. DASS, and R.L. SMITH **614**

Davis, P.J.
Differential scanning calorimetric studies of the thermotropic phase behaviour of membranes composed of dipalmitoyllecithin and mixed-acid unsaturated lecithins
P.J. DAVIS, K.P. COOLBEAR, and K.M.W. KEOUGH **851**

Davis, R.C.
pH-dependent amino acid induced conformational changes of rabbit muscle pyruvate kinase
CHIU-YIN KWAN and ROBERT C. DAVIS **188**

Davis, R.C.
Comparative studies of kinetic and optical properties of rabbit muscle, sturgeon muscle, and yeast pyruvate kinase
CHIU-YIN KWAN, JEROME L. GABRIEL, and ROBERT C. DAVIS **194**

Debanne, M.T.
Multivalent interaction between asialofetuin and plasma membrane preparations from the rat liver
MARIA T. DEBANNE, ERWIN REGOECZI, and MARK W.C. HATTON **1414**

Deber, C.M.
Peptide models for protein-mediated cation transport
CHARLES M. DEBER **865**

De Bruyne, C.K.
β-D-Xylosidase from *Penicillium wortmanni*: binding and hydrolysis of alkyl and aryl 1-oxygen and 1-thio-β-D-xylopyranosides
F. DELEYN, M. CLAEYSSENS, and C.K. DE BRUYNE **5**

de Krujiff, B.
Phospholipids and membrane transport
P.R. CULLIS, B. DE KRUJIFF, M.J. HOPE, R. NAYAR, and S.L. SCHMID **1091**

de la Llosa, P.
Oxidation of methionine residues in lutropin
PEDRO DE LA LLOSA, AMOR EL ABED, and MARGUERITE ROY **745**

Deleyn, F.
β-D-Xylosidase from *Penicillium wortmanni*: binding and hydrolysis of alkyl and aryl 1-oxygen and 1-thio-β-D-xylopyranosides
F. DELEYN, M. CLAEYSSENS, and C.K. DE BRUYNE **5**

Demaille, J.G.
Calmodulin-dependent myosin light chain kinases from cardiac and smooth muscle: a comparative study
MICHAEL P. WALSH, JEAN-CLAUDE CAVADORE, BERNARD VALLET, and JACQUES G. DEMAILLE **299**

Dennis, J.
Poly(A)-containing RNA in the livers of ethionine-treated rats
JAMES DENNIS and ROBERT KISILEVSKY **230**

Dennis, J.
Poly(A) polymerase activity in ethionine-intoxicated rats: the relative effectiveness of disaggregated and intact polyribosomes as primers for poly(A) polymerase
JAMES DENNIS and ROBERT KISILEVSKY **236**

Desai, K.S.
Cyclic AMP metabolism and lipolysis in cultured human adipocyte precursors
DANIEL A.K. RONCARI, HENRY WANG, and KAPPU S. DESAI **201**

Desautels, M.
Parallel regression of cold-induced changes in ultrastructure, composition, and properties of brown adipose tissue mitochondria during recovery of rats from acclimation to cold
MICHEL DESAUTELS and JEAN HIMMS-HAGEN **1057**

Des Rosiers, C.
Purine synthesis *de novo* and its regulation in rat hepatocytes
CHRISTINE DES ROSIERS, MARCEL LALANNE, and JOAN WILLEMOT **599**

Dhanarajan, Z.C.
M-line protein preparations from frog skeletal muscle: isolation and localization of an M-line protein and a 105 000 dalton polypeptide contaminant
Z.C. DHANARAJAN and BURR G. ATKINSON **516**

Dittmar, E.
Polypeptide turnover in brown adipose tissue mitochondria during acclimation of rats to cold
JEAN HIMMS-HAGEN, ELIZABETH DITTMAR, and GLORIA ZAROR-BEHRENS **336**

Dixon, N.E.
Jack bean urease (EC 3.5.1.5).I. A simple dry ashing procedure for the microdetermination of trace metals in proteins. The nickel content of urease
NICHOLAS E. DIXON, ROBERT L. BLAKELEY, and BURT ZERNER **469**

Dixon, N.E.
Jack bean urease (EC 3.5.1.5).II. The relationship between nickel, enzymatic activity, and the "abnormal" ultraviolet spectrum. The nickel content of jack beans
NICHOLAS E. DIXON, CARLO GAZZOLA, COLIN J. ASHER, DENNIS S.W. LEE, ROBERT L. BLAKELEY, and BURT ZERNER **474**

Dixon, N.E.
Jack bean urease (EC 3.5.1.5).III. The involvement of active-site nickel ion in inhibition by β-mercaptoethanol, phosphoramidate, and fluoride
NICHOLAS E. DIXON, ROBERT L. BLAKELEY, and BURT ZERNER **481**

Dixon, N.E.
Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors
NICHOLAS E. DIXON, JOHN A. HINDS, ANN K. FIHELLY, CARLO GAZZOLA, DONALD J. WINZOR, ROBERT L. BLAKELEY, and BURT ZERNER **1323**

Dixon, N.E.
Jack bean urease (EC 3.5.1.5). V. On the mechanism of action of urease on urea, formamide, acetamide, *N*-methylurea, and related compounds
NICHOLAS E. DIXON, PETER W. RIDDLES, CARLO GAZZOLA, ROBERT L. BLAKELEY, and BURT ZERNER **1335**

Dubsky, M.
Relationship between chromatin structure and replication in mouse L-cells
ROSE SHEININ, G. SETTERFIELD, I. DARDICK, G. KISS, and M. DUBSKY **1359**

Duckworth, H.W.
A comparison of the citrate synthases of *Escherichia coli* and *Acinetobacter anitratum*
DAVID MORSE and HARRY W. DUCKWORTH **696**

Dunford, H.B.
Horseradish peroxidase. XLII. Oxidations of L-tyrosine and 3,5-diiodo-L-tyrosine by compound II
ISOBEL M. RALSTON and H. BRIAN DUNFORD **1270**

Duperrouzel, P.R.
Hydrocarbon specificity for transport on the tricarboxylate transporter of rat liver mitochondria
S. CHEEMA-DHADLI, M.L. HALPERIN, P.R. DUPERROUZEL, and C.C. LEZNOFF **804**

Dupuis, G.
Impairment by covalent modification of the ability of *Phaseolus vulgaris* phytohemagglutinin to stimulate cultured human lymphocytes: a comparison of different forms of covalent modification
GILLES DUPUIS, SYLVIE CLAIROUX-MOREAU, and PIERRE CHEVRIER **137**

Dupuis, G.
Binding of chemical derivatives of *Phaseolus vulgaris* phytohemagglutinin to pig spleen lymphocytes
GILLES DUPUIS and SYLVIE CLAIROUX-MOREAU **399**

Eady, R.R.
Catalysis of exchange of terminal phosphate groups of ATP and ADP by purified nitrogenase proteins
R.W. MILLER, R.L. ROBSON, M.G. YATES, and R.R. EADY **542**

Ecarot-Charrier, B.
Reticulocyte membrane transferrin receptors
B. ECAROT-CHARRIER, V.L. GREY, A. WILCZYNSKA, and H.M. SCHULMAN **418**

Eggo, M.C.
Synthesis of very high molecular weight thyroglobulin in three heterologous systems
MARGARET C. EGGO and GERARD N. BURROW **446**

El Abed, A.
Oxidation of methionine residues in lutropin
PEDRO DE LA LLOSA, AMOR EL ABED, and MARGUERITE ROY **745**

Elliott, W.B.
Inhibition of electron transport and oxidative phosphorylation in plant mitochondria by gladiolic acid and structurally-related aromatic ortho dialdehydes
G.A. WHITE and W.B. ELLIOTT **9**

Engler, R.
Kinetic study of the interaction between rat haptoglobin and rat liver cathepsin B
M. PAGANO, R. ENGLER, M. GELIN, and M.F. JAYLE **410**

Epand, R.M.
The effect of cholesterol on the interaction of glucagon with the gel state of dimyristoylphosphatidylcholine
RICHARD M. EPAND **859**

Etzkorn, J.K.
DNA sequence organization in the starfish *Dermasterias imbricata*
MICHAEL J. SMITH, A. LUI, K.K. GIBSON, and J.K. ETZKORN **352**

Eylar, E.H.
The PO glycoprotein of peripheral nerve myelin
A. ISHAQUE, M.W. ROOMI, I. SZYMANSKA, S. KOWALSKI, and E.H. EYLAR **913**

Fihelly, A.K.
Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors
NICHOLAS E. DIXON, JOHN A. HINDS, ANN K. FIHELLY, CARLO GAZZOLA, DONALD J. WINZOR, ROBERT L. BLAKELEY, and BURT ZERNER **1323**

Fissekis, J.D.
A comparative proton magnetic resonance conformational study of the tRNA "wobble" nucleosides 5-carboxymethyl-, 5-methoxycarbonylmethyl-, and 5-carbamoylmethyl-uridine
ROBERT L. LIPNICK and JOHN D. FISSEKIS **1355**

Fletcher, G.L.
Antifreeze proteins from the shorthorn sculpin, *Myoxocephalus scorpius*: isolation and characterization
CHOY L. HEW, GARTH L. FLETCHER, and V.S. ANANTHANARAYANAN **377**

Forer, A.
Experimental determinations of tubulin in the *in vivo* mitotic apparatus of sea urchin zygotes
ARTHUR FORER, D.E. LARSON, and A.M. ZIMMERMAN **1277**

Forrest, B.J.
^{13}C and ^{31}P nuclear magnetic resonance of lipid dispersions from human aorta
ROBERT J. CUSHLEY, BRUCE J. FORREST, ASHOK K. GROVER, and STEPHEN R. WASSALL **206**

Forsdyke, D.R.
Lectin pulses as determinants of lymphocyte activation and inactivation during the first six hours of culture: sequential action of concanavalin A and complement cause cell lysis
D.R. FORSDYKE **1387**

Fournier, A.
Synthesis of peptides by the solid-phase method. V. Substance P and analogs
A. FOURNIER, R. COUTURE, J. MAGNAN, M. GENDREAU, D. REGOLI, and S. ST-PIERRE **272**

Fowke, L.C.
Yeast cell wall, membrane, and soluble marker polypeptides identified by comparative two-dimensional electrophoresis
A.J. ROBERTSON, J.H. GERLACH, G.H. RANK, and L.C. FOWKE **565**

Fraser, I.H.
Effect of phosphatidylinositol and phosphatidylserine on membrane-bound galactosyltransferase
SAMUEL RATNAM, IAN H. FRASER, and SAILEN MOOKERJEA **58**

Fraser, I.H.
Purification and stabilization of galactosyltransferase from serum and lysolecithin extracted microsomes
IAN H. FRASER, PATRICIA WADDEN, and SAILEN MOOKERJEA 878

Friesen, A.D.
Studies on incorporation of mannose into rat α_1-acid glycoprotein: evidence for precursor forms in rough membranes
A.D. FRIESEN and J.C. JAMIESON 1101

Friesen, J.D.
Identification and quantitation of elongation factor EF-P in *Escherichia coli* cell-free extracts
GYNHEUNG AN, BERNARD R. GLICK, JAMES D. FRIESEN, and M. CLELIA GANOZA 1312

Gabriel, J.L.
Comparative studies of kinetic and optical properties of rabbit muscle, sturgeon muscle, and yeast pyruvate kinase
CHIU-YIN KWAN, JEROME L. GABRIEL, and ROBERT C. DAVIS 194

Ganoza, M.C.
Identification and quantitation of elongation factor EF-P in *Escherichia coli* cell-free extracts
GYNHEUNG AN, BERNARD R. GLICK, JAMES D. FRIESEN, and M. CLELIA GANOZA 1312

Garay, R.P.
A Na^+,K^+ co-transport assay for essential hypertension
GEORGES DAGHER and RICARDO P. GARAY 1069

Gaudioso, D.
Diffusional limitations in liquid-phase reactions catalyzed by enzymes immobilized on porous supports: sucrose inversion by β-fructooxidase immobilized on IRA-93 resin
LUIGI TORO and DOMENICO GAUDIOSO 667

Gauthier, C.
Yeast, rye, and calf histones. Similarities and differences detected by electrophoretic and immunological methods
ANNE TESSIER, BIRGITTE ROLAND, CLAUDE GAUTHIER, WILLIAM A. ANDERSON, and DOMINICK PALLOTTA 405

Gauthier, C.
A three step purification procedure for human liver ferritin
M. PAGÉ, J. LAGUEUX, and C. GAUTHIER 494

Gazzola, C.
Jack bean urease (EC 3.5.1.5).II. The relationship between nickel, enzymatic activity, and the "abnormal" ultraviolet spectrum. The nickel content of jack beans
NICHOLAS E. DIXON, CARLO GAZZOLA, COLIN J. ASHER, DENNIS S.W. LEE, ROBERT L. BLAKELEY, and BURT ZERNER 474

Gazzola, C.
Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors
NICHOLAS E. DIXON, JOHN A. HINDS, ANN K. FIHELLY, CARLO GAZZOLA, DONALD J. WINZOR, ROBERT L. BLAKELEY, and BURT ZERNER 1323

Gazzola, C.
Jack bean urease (EC 3.5.1.5). V. On the mechanism of action of urease on urea, formamide, acetamide, *N*-methylurea, and related compounds
NICHOLAS E. DIXON, PETER W. RIDDLES, CARLO GAZZOLA, ROBERT L. BLAKELEY, and BURT ZERNER 1335

Gelin, M.
Kinetic study of the interaction between rat haptoglobin and rat liver cathepsin B
M. PAGANO, R. ENGLER, M. GELIN, and M.F. JAYLE 410

Gendreau, M.
Synthesis of peptides by the solid-phase method. V. Substance P and analogs
A. FOURNIER, R. COUTURE, J. MAGNAN, M. GENDREAU, D. REGOLI, and S. ST-PIERRE 272

Gerig, J.T.
Evidence for multiple forms of *p*-trifluoromethylbenzenesulfonyl-α-chymotrypsin
M.E. ANDO, J.T. GERIG, K.F.S. LUK, and D.C. ROE 427

Gerlach, J.H.
Yeast cell wall, membrane, and soluble marker polypeptides identified by comparative two-dimensional electrophoresis
A.J. ROBERTSON, J.H. GERLACH, G.H. RANK, and L.C. FOWKE 565

Gibson, K.K.
DNA sequence organization in the starfish *Dermasterias imbricata*
MICHAEL J. SMITH, A. LUI, K.K. GIBSON, and J.K. ETZKORN 352

Glick, B.R.
Identification and partial characterization of an *Escherichia coli* mutant with altered hydrogenase activity
BERNARD R. GLICK, PATRICK Y. WANG, HENRY SCHNEIDER, and WILLIAM G. MARTIN 361

Glick, B.R.
Identification and quantitation of elongation factor EF-P in *Escherichia coli* cell-free extracts
GYNHEUNG AN, BERNARD R. GLICK, JAMES D. FRIESEN, and M. CLELIA GANOZA 1312

Glick, B.R.
The chemical modification of *Escherichia coli* ribosomes with methyl *p*-nitrobenzenesulfonate. Evidence for the involvement of a histidine residue in the functioning of the ribosomal peptidyl transferase
BERNARD R. GLICK 1345

Godin, D.V.
Membrane alterations in acute myocardial ischemia
DAVID V. GODIN, JOHN M. TUCHEK, and MARGO MOORE 777

Gonzalez, R.M.
Intracellular (Golgi) receptors for insulinlike peptides in rat liver
BARRY I. POSNER, ROBERTO M. GONZALEZ, and HARVEY J. GUYDA 1075

Gordon, E.R.
The formation of bilirubin diglucuronide by rat liver microsomal preparations
ELLEN R. GORDON and CARL A. GORESKY **1302**

Goresky, C.A.
The formation of bilirubin diglucuronide by rat liver microsomal preparations
ELLEN R. GORDON and CARL A. GORESKY **1302**

Goswami, T.
Inhibition of mitochondrial carnitine–acylcarnitine translocase by sulfobetaines
REHANA PARVIN, TAPAS GOSWAMI, and
SHRI V. PANDE **822**

Gougoux, A.
Effect of phosphoenolpyruvate carboxykinase inhibition on renal metabolism of glutamine: in vivo studies in the dog and rat
P. VINAY, F. COUTLÉE, P. MARTEL, G. LEMIEUX, and
A. GOUGOUX **103**

Gougoux, A.
Inhibition of renal gluconeogenesis and phospho*enol*pyruvate carboxykinase activity by 3-mercaptopicolinic acid: studies in rat, guinea pig, dog, rabbit, and man
MALCOLM WATFORD, PATRICK VINAY, GUY LEMIEUX, and
ANDRÉ GOUGOUX **440**

Gowans, B.
N-Trifluoroacetyladriamycin-14-valerate and adriamycin induced DNA damage in the RPMI-6410 human lymphoblastoid cell line
L. BROX, B. GOWANS, and A. BELCH **720**

Grant, C.W.M.
Headgroup oligosaccharide dynamics of a transmembrane glycoprotein
PAT M. LEE and CHRIS W.M. GRANT **1197**

Greene, R.
Inhibition of purified wheat germ DNA dependent RNA polymerase by pyran copolymer
ROBERT GREENE and BENJAMIN MUNSON **295**

Greer, W.L.
Guanosine metabolism in *Neurospora crassa*
W.L. GREER, L. PENDYALA, and A.M. WELLMAN **369**

Grey, V.L.
Reticulocyte membrane transferrin receptors
B. ECAROT-CHARRIER, V.L. GREY, A. WILCZYNSKA, and
H.M. SCHULMAN **418**

Grover, A.K.
^{13}C and ^{31}P nuclear magnetic resonance of lipid dispersions from human aorta
ROBERT J. CUSHLEY, BRUCE J. FORREST, ASHOK K. GROVER,
and STEPHEN R. WASSALL **206**

Guillot, J.-G.
Conformations of calf thymus and rye histones H3 and H4 in aqueous solution by laser Raman spectroscopy
M. PÉZOLET, R. SAVOIE, J.-G. GUILLOT, M. PIGEON-GOSSELIN,
and D. PALLOTTA **633**

Gupta, V.S.
Procion dyes as affinity ligands and reporter groups for dihydrofolate reductase from Walker 256 carcinoma
S.J. JOHNSON, K.J. STEVENSON, and V.S. GUPTA **1252**

Gurd, J.W.
Subcellular distribution and partial characterization of the three major classes of concanavalin A receptors associated with rat brain synaptic junctions
JAMES W. GURD **941**

Gurd, J.W.
Characterization of mononucleosomes and associated glycoproteins from Ehrlich ascites tumour cells
BRIAN L.A. MIKI, JAMES W. GURD, and
IAN R. BROWN **1261**

Gutfreund, H.
Future problems in enzymology
H. GUTFREUND **1**

Guyda, H.J.
Intracellular (Golgi) receptors for insulinlike peptides in rat liver
BARRY I. POSNER, ROBERTO M. GONZALEZ, and
HARVEY J. GUYDA **1075**

Hahn, P.
Cholesterol metabolism in obese mice
PETER HAHN **1258**

Halperin, M.L.
Hydrocarbon specificity for transport on the tricarboxylate transporter of rat liver mitochondria
S. CHEEMA-DHADLI, M.L. HALPERIN, P.R. DUPERROUZEL, and
C.C. LEZNOFF **804**

Hamlyn, P.H.
The variability, arrangement, and rearrangement of immunoglobulin genes
T.H. RABBITTS, P.H. HAMLYN, G. MATTHYSSENS, and
B.A. ROE **176**

Handler, P.
The future of the scientific endeavor
PHILIP HANDLER **155**

Harpaz, N.
Characterization of the oligosaccharides of liver Z variant α_1-antitrypsin
ALBERT HERCZ and NOAM HARPAZ **644**

Hatton, M.W.C.
Multivalent interaction between asialofetuin and plasma membrane preparations from the rat liver
MARIA T. DEBANNE, ERWIN REGOECZI, and
MARK W.C. HATTON **1414**

Head, R.A.
Glutamate receptor binding to cat central nervous system membranes
RICHARD A. HEAD, GODFREY TUNNICLIFF, and
G. KEITH MATHESON **534**

Hellion, P.
The uptake and acylation of exogenous lysophosphatidylethanolamine by *Escherichia coli* cells
P. HELLION, F. LANDRY, P.V. SUBBAIAH, and P. PROULX 1381

Henry, J.A.C.
The effect of cholesterol on measured interaction and compressibility of dipalmitoylphosphatidylcholine bilayers
R.P. RAND, V.A. PARSEGIAN, J.A.C. HENRY, L.J. LIS, and M. MCALISTER 959

Hercz, A.
Characterization of the oligosaccharides of liver Z variant α_1-antitrypsin
ALBERT HERCZ and NOAM HARPAZ 644

Hew, C.L.
Antifreeze proteins from the shorthorn sculpin, *Myoxocephalus scorpius*: isolation and characterization
CHOY L. HEW, GARTH L. FLETCHER, and V.S. ANANTHANARAYANAN 377

Hildebrandt, V.
Pathways of cytochrome *c* oxidation by soluble and membrane-bound cytochrome aa_3
P. NICHOLLS, V. HILDEBRANDT, B.C. HILL, F. NICHOLLS, and J.M. WRIGGLESWORTH 969

Hill, B.C.
Cytochrome *c* reduction by cysteine plus copper: a pseudosubstrate system for cytochrome *c* oxidase
BRUCE C. HILL and PETER NICHOLLS 499

Hill, B.C.
Pathways of cytochrome *c* oxidation by soluble and membrane-bound cytochrome aa_3
P. NICHOLLS, V. HILDEBRANDT, B.C. HILL, F. NICHOLLS, and J.M. WRIGGLESWORTH 969

Hill-Schubert, J.
The isolation and properties of a ribonuclease associated with influenza virus
D.J.S. ARORA, L. VINCENT, and J. HILL-SCHUBERT 67

Himms-Hagen, J.
Polypeptide turnover in brown adipose tissue mitochondria during acclimation of rats to cold
JEAN HIMMS-HAGEN, ELIZABETH DITTMAR, and GLORIA ZAROR-BEHRENS 336

Himms-Hagen, J.
Parallel regression of cold-induced changes in ultrastructure, composition, and properties of brown adipose tissue mitochondria during recovery of rats from acclimation to cold
MICHEL DESAUTELS and JEAN HIMMS-HAGEN 1057

Hincke, M.T.
The effect of temperature on some calcium-binding properties of troponin C and calmodulin
WILLIAM D. MCCUBBIN, MAXWELL T. HINCKE, and C.M. KAY 683

Hinds, J.A.
Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors
NICHOLAS E. DIXON, JOHN A. HINDS, ANN K. FIHELLY, CARLO GAZZOLA, DONALD J. WINZOR, ROBERT L. BLAKELEY, and BURT ZERNER 1323

Ho, J.
Hepatotrophic effects of insulin on glucose, glycogen, and adenine nucleotides in hepatocytes isolated from fed adult rats
KHURSHEED N. JEEJEEBHOY, JOSEPH HO, RAJNI MEHRA, and ALAN BRUCE-ROBERTSON 1004

Hofmann, I.
The influence of chronic ethanol feeding to rats on liver mitochondrial membrane structure and function
E.A. HOSEIN, HUNG LEE, and ILAN HOFMANN 1147

Holland, P.C.
Myogenesis of normal and dystrophic chick embryonic skeletal muscle cells *in vitro*: biosynthesis of plasma membrane proteins
PAUL C. HOLLAND, GEORGE A. CATES, BYRON S. WENGER, and BARBARA L. RANEY 1156

Holub, B.J.
Relative suitability of 1-palmitoyl and 1-stearoyl homologues of 1-acyl-*sn*-glycerylphosphorylcholine and different acyl donors for phosphatidylcholine synthesis via acyl-CoA:1-acyl-*sn*-glycero-3-phosphorylcholine acyltransferase in rat lung microsomes
B.J. HOLUB, J. PIEKARSKI, and F. POSSMAYER 434

Hope, M.J.
Phospholipids and membrane transport
P.R. CULLIS, B. DE KRUIJFF, M.J. HOPE, R. NAYAR, and S.L. SCHMID 1091

Horitsu, H.
Purification of a base-specific ribonuclease Ru from *Rhizopus niveus*
HIROYUKI HORITSU, NORIYUKI TAKIHI, MASAHISA SUGIURA, and MIKIO TOMOYEDA 489

Hosein, E.A.
The influence of chronic ethanol feeding to rats on liver mitochondrial membrane structure and function
E.A. HOSEIN, HUNG LEE, and ILAN HOFMANN 1147

Ingram, J.M.
Chloramphenicol-resistant variants of *Pseudomonas aeruginosa* defective in amino acid transport
JEAN E. IRVIN and JORDAN M. INGRAM 1165

Irvin, J.E.
Chloramphenicol-resistant variants of *Pseudomonas aeruginosa* defective in amino acid transport
JEAN E. IRVIN and JORDAN M. INGRAM 1165

Ishaque, A.
The PO glycoprotein of peripheral nerve myelin
A. ISHAQUE, M.W. ROOMI, I. SZYMANSKA, S. KOWALSKI, and E.H. EYLAR 913

Jacquemotte, F.
Etude conformationnelle par résonance magnétique nucléaire du carbone 13 de peptides à activité antalgique
ROBERT RENÉ SMOLDERS, ROLAND COOMANS, FRANÇOISE JACQUEMOTTE, YVES VAN HAVERBEKE, ANDRÉ MAQUESTIAU et ROBERT MULLER **1241**

Jain, M.K.
Interaction of four local anesthetics with phospholipid bilayer membranes: permeability effects and possible mechanisms
MICHAEL A. SINGER and MAHENDRA K. JAIN **815**

James, M.N.G.
An X-ray crystallographic approach to enzyme structure and function
MICHAEL N.G. JAMES **251**

Jamieson, J.C.
Studies on incorporation of mannose into rat α_1-acid glycoprotein: evidence for precursor forms in rough membranes
A.D. FRIESEN and J.C. JAMIESON **1101**

Jarvis, E.C.
Partial purification of diphosphatidylglycerol synthetase from liver mitochondrial membranes
W.C. MCMURRAY and E.C. JARVIS **771**

Jayle, M.F.
Kinetic study of the interaction between rat haptoglobin and rat liver cathepsin B
M. PAGANO, R. ENGLER, M. GELIN, and M.F. JAYLE **410**

Jeannotte, L.
Two large glycoprotein fragments related to the NH_2-terminal part of the adrenocorticotropin–β-lipotropin precursor are the end products of the maturation process in the rat pars intermedia
P. CRINE, N.G. SEIDAH, L. JEANNOTTE, and M. CHRÉTIEN **1318**

Jeejeebhoy, K.N.
Hepatotrophic effects of insulin on glucose, glycogen, and adenine nucleotides in hepatocytes isolated from fed adult rats
KHURSHEED N. JEEJEEBHOY, JOSEPH HO, RAJNI MEHRA, and ALAN BRUCE-ROBERTSON **1004**

Jennings, H.J.
Structural determination and serology of the native polysaccharide antigen of type-III group B *Streptococcus*
HAROLD J. JENNINGS, KARL-GUNNAR ROSELL, and DENNIS L. KASPER **112**

Jennings, H.J.
The R-type lipopolysaccharides of *Neisseria meningitidis*
HAROLD J. JENNINGS, APURBA K. BHATTACHARJEE, LENNART KENNE, C. PAUL KENNY, and GERALD CALVER **128**

Johnson, S.J.
Procion dyes as affinity ligands and reporter groups for dihydrofolate reductase from Walker 256 carcinoma
S.J. JOHNSON, K.J. STEVENSON, and V.S. GUPTA **1252**

Kageyama, K.
Cytotoxic activity of unsaturated fatty acids to lymphocytes
K. KAGEYAMA, T. NAGASAWA, S. KIMURA, T. KOBAYASHI, and Y. KINOSHITA **504**

Kako, K.J.
Membrane changes induced by early myocardial ischemia in the dog
S.C. VASDEV, G.P. BIRO, R. NARBAITZ, and K.J. KAKO **1112**

Kanfer, J.N.
Phosphatidylglycerol formation via transphosphatidylation by rat brain extracts
ROBERT J. CHALIFOUR, TAKAO TAKI, and JULIAN N. KANFER **1189**

Kanfer, J.N.
The base exchange ensymes and phospholipase D of mammalian tissue
JULIAN N. KANFER **1370**

Kaplan, J.G.
Increased cationic fluxes in stimulated lymphocytes of the mouse: response of enriched B- and T-cell subpopulations to B- and T-cell mitogens
TREVOR OWENS and J. GORDIN KAPLAN **831**

Kaplan, J.G.
Cell interactions in concanavalin A activated cation flux and DNA synthesis of mouse lymphocytes
TREVOR OWENS and J.G. KAPLAN **1314**

Kapoor, V.
In vitro studies on L-serine deaminase activity of *Escherichia coli* K12
E.B. NEWMAN and V. KAPOOR **1292**

Kasper, D.L.
Structural determination and serology of the native polysaccharide antigen of type-III group B *Streptococcus*
HAROLD J. JENNINGS, KARL-GUNNAR ROSELL, and DENNIS L. KASPER **112**

Kates, M.
Fluorescence polarization studies of rat liver microsomes with altered phospholipid desaturase activities
E.L. PUGH, M. KATES, and A.G. SZABO **952**

Kay, C.M.
The effect of temperature on some calcium-binding properties of troponin C and calmodulin
WILLIAM D. MCCUBBIN, MAXWELL T. HINCKE, and C.M. KAY **683**

Kay, W.W.
Citrate transport in *Salmonella typhimurium*: studies with 2-fluoro-L-*erythro*-citrate as a substrate
D.M. ASHTON, G.D. SWEET, J.M. SOMERS, and W.W. KAY **797**

Kenne, L.
The R-type lipopolysaccharides of *Neisseria meningitidis*
HAROLD J. JENNINGS, APURBA K. BHATTACHARJEE, LENNART KENNE, C. PAUL KENNY, and GERALD CALVER **128**

Kenny, C.P.
The R-type lipopolysaccharides of *Neisseria meningitidis*
HAROLD J. JENNINGS, APURBA K. BHATTACHARJEE, LENNART KENNE, C. PAUL KENNY, and GERALD CALVER 128

Keough, K.M.W.
Differential scanning calorimetric studies of the thermotropic phase behaviour of membranes composed of dipalmitoyllecithin and mixed-acid unsaturated lecithins
P.J. DAVIS, K.P. COOLBEAR, and K.M.W. KEOUGH 851

Keys, D.S.
Isolation of deoxyribonuclease II from bovine intestinal mucosa
D. STEPHEN KEYS and S.H. ZBARSKY 749

Kimura, S.
Cytotoxic activity of unsaturated fatty acids to lymphocytes
K. KAGEYAMA, T. NAGASAWA, S. KIMURA, T. KOBAYASHI, and Y. KINOSHITA 504

Kinoshita, Y.
Cytotoxic activity of unsaturated fatty acids to lymphocytes
K. KAGEYAMA, T. NAGASAWA, S. KIMURA, T. KOBAYASHI, and Y. KINOSHITA 504

Kisilevsky, R.
Poly(A)-containing RNA in the livers of ethionine-treated rats
JAMES DENNIS and ROBERT KISILEVSKY 230

Kisilevsky, R.
Poly(A) polymerase activity in ethionine-intoxicated rats: the relative effectiveness of disaggregated and intact polyribosomes as primers for poly(A) polymerase
JAMES DENNIS and ROBERT KISILEVSKY 236

Kiss, G.
Relationship between chromatin structure and replication in mouse L-cells
ROSE SHEININ, G. SETTERFIELD, I. DARDICK, G. KISS, and M. DUBSKY 1359

Kluger, R.
Amino group reactions of the sulfhydryl reagent methyl methanesulfonothioate. Inactivation of D-3-hydroxybutyrate dehydrogenase and reaction with amines in water
RONALD KLUGER and WING-CHEONG TSUI 629

Klugerman, A.
The subcellular localization of testicular sulfogalactoglycerolipid
ABBEY KLUGERMAN and MARY JUDITH KORNBLATT 225

Kobayashi, T.
Cytotoxic activity of unsaturated fatty acids to lymphocytes
K. KAGEYAMA, T. NAGASAWA, S. KIMURA, T. KOBAYASHI, and Y. KINOSHITA 504

Kornberg, A.
Biochemistry Evolving
ARTHUR KORNBERG 93

Kornblatt, J.A.
Cross-linking of cytochrome oxidase subunits with difluorodinitrobenzene
JACK A. KORNBLATT and DIANE F. LAKE 219

Kornblatt, J.A.
pH-induced alterations in the structure and activity of cytochrome *c* oxidase
JACK A. KORNBLATT 840

Kornblatt, M.J.
The subcellular localization of testicular sulfogalactoglycerolipid
ABBEY KLUGERMAN and MARY JUDITH KORNBLATT 225

Kowalski, S.
The PO glycoprotein of peripheral nerve myelin
A. ISHAQUE, M.W. ROOMI, I. SZYMANSKA, S. KOWALSKI, and E.H. EYLAR 913

Krebs, A.
The kinetic properties of phosphoenolpyruvate carboxykinase of *Escherichia coli*
ANITA KREBS and WILLIAM A. BRIDGER 309

Kuksis, A.
Uptake and transport of sterols by isolated villus cells of rat jejunum
P. CHILD and A. KUKSIS 1215

Kuksis, A.
Stereochemical substrate requirements of lecithin:cholesterol acyltransferase and its inhibition by enantiomeric lysolecithins
NORMAN B. SMITH and ARNIS KUKSIS 1286

Kwan, C.-Y.
pH-dependent amino acid induced conformational changes of rabbit muscle pyruvate kinase
CHIU-YIN KWAN and ROBERT C. DAVIS 188

Kwan, C.-Y.
Comparative studies of kinetic and optical properties of rabbit muscle, sturgeon muscle, and yeast pyruvate kinase
CHIU-YIN KWAN, JEROME L. GABRIEL, and ROBERT C. DAVIS 194

Kwok, Y.
Evolutionary relationship between *Halobacterium cutirubrum* and eukaryotes determined by use of aminoacyl-tRNA synthetases as phylogenetic probes
YAU KWOK and J. TZE-FEI WONG 213

Kwok, Y.C.
Cleavage of protected amino acids and peptides from benzyl ester resins by transesterification with potassium cyanide in benzyl alcohol
GRAHAM J. MOORE and YAN C. KWOK 641

Labow, R.S.
Estrone β-glucosidase activity in human placenta
ROSALIND S. LABOW, DENIS G. WILLIAMSON, and DONALD S. LAYNE 23

Laderoute, K.R.
Specificity of xanthine oxidase for nitrogen heteroaromatic cation substrates
JOHN W. BUNTING, KEITH R. LADEROUTE, and DONALD J. NORRIS 49

Laderoute, K.R.
The pH dependence of xanthine oxidase catalysis in basic solution
JOHN W. BUNTING, KEITH R. LADEROUTE, and DONALD J. NORRIS 394

Lafleur, F.
Inosine synthesis and phosphoribosylpyrophosphate availability in rat liver cells in the presence of allopurinol
MARCEL LALANNE and FRANCINE LAFLEUR 607

Lagueux, J.
A three step purification procedure for human liver ferritin
M. PAGÉ, J. LAGUEUX, and C. GAUTHIER 494

Lake, D.F.
Cross-linking of cytochrome oxidase subunits with difluorodinitrobenzene
JACK A. KORNBLATT and DIANE F. LAKE 219

Lake, P.
Demonstration with monoclonal antibody of the glycoprotein nature of Thy-1.2 alloantigen
M. LETARTE, J. ADDIS, M.E. MACDONALD, A. BERNSTEIN, and PHIL LAKE 1026

Laks, P.
Nitroxide spin-probe study of amphotericin B – ergosterol interaction in egg phosphatidylcholine multilayers
A.C. OEHLSCHLAGER and P. LAKS 978

Lalanne, M.
Purine synthesis *de novo* and its regulation in rat hepatocytes
CHRISTINE DES ROSIERS, MARCEL LALANNE, and JOAN WILLEMOT 599

Lalanne, M.
Inosine synthesis and phosphoribosylpyrophosphate availability in rat liver cells in the presence of allopurinol
MARCEL LALANNE and FRANCINE LAFLEUR 607

Landry, F.
The formation of phosphatidylethanolamine from diglyceride by extracts of *Escherichia coli*
P. PROULX, C. TOMALTY, F. LANDRY, and J.J. MILCZAREK 655

Landry, F.
The uptake and acylation of exogenous lysophosphatidylethanolamine by *Escherichia coli* cells
P. HELLION, F. LANDRY, P.V. SUBBAIAH, and P. PROULX 1381

Laroche, A.
ADP-ribosylation of rye histones
A. LAROCHE, J. PLANTE, G. BEAUMONT, and G.G. POIRIER 692

Larson, D.E.
Experimental determinations of tubulin in the *in vivo* mitotic apparatus of sea urchin zygotes
ARTHUR FORER, D.E. LARSON, and A.M. ZIMMERMAN 1277

Lawford, H.G.
The use of bee venom melittin to assess the topography of membrane vesicles derived from *Paracoccus denitrificans*
JEANETTE R. PIK and HUGH G. LAWFORD 996

Layne, D.S.
Estrone β-glucosidase activity in human placenta
ROSALIND S. LABOW, DENIS G. WILLIAMSON, and DONALD S. LAYNE 23

Lee, C.P.
Fatty acid metabolism in skeletal muscle mitochondria from two strains of dystrophic mice
M.E. MARTENS and C.P. LEE 549

Lee, D.S.W.
Jack bean urease (EC 3.5.1.5).II. The relationship between nickel, enzymatic activity, and the "abnormal" ultraviolet spectrum. The nickel content of jack beans
NICHOLAS E. DIXON, CARLO GAZZOLA, COLIN J. ASHER, DENNIS S.W. LEE, ROBERT L. BLAKELEY, and BURT ZERNER 474

Lee, H.
The influence of chronic ethanol feeding to rats on liver mitochondrial membrane structure and function
E.A. HOSEIN, HUNG LEE, and ILAN HOFMANN 1147

Lee, K.P.
Rearrangements and reconstitution of mononucleosomes as monitored by thermal denaturation measurements
SUSAN S. CHIU, KAY P. LEE, and PETER N. LEWIS 73

Lee, P.M.
Headgroup oligosaccharide dynamics of a transmembrane glycoprotein
PAT M. LEE and CHRIS W.M. GRANT 1197

Leitch, L.C.
Multiple binding sites for local anesthetics in membranes: characterization of the sites and their equilibria by deuterium NMR of specifically deuterated procaine and tetracaine
YVAN BOULANGER, SHIRLEY SCHREIER, LEONARD C. LEITCH, and IAN C.P. SMITH 986

Lemieux, G.
Effect of phosphoenolpyruvate carboxykinase inhibition on renal metabolism of glutamine: in vivo studies in the dog and rat
P. VINAY, F. COUTLÉE, P. MARTEL, G. LEMIEUX, and A. GOUGOUX 103

Lemieux, G.
Inhibition of renal gluconeogenesis and phospho*enol*pyruvate carboxykinase activity by 3-mercaptopicolinic acid: studies in rat, guinea pig, dog, rabbit, and man
MALCOLM WATFORD, PATRICK VINAY, GUY LEMIEUX, and ANDRÉ GOUGOUX 440

Letarte, M.
Demonstration with monoclonal antibody of the glycoprotein nature of Thy-1.2 alloantigen
M. LETARTE, J. ADDIS, M.E. MACDONALD, A. BERNSTEIN, and PHIL LAKE 1026

Lewis, P.N.
Rearrangements and reconstitution of mononucleosomes as monitored by thermal denaturation measurements
SUSAN S. CHIU, KAY P. LEE, and PETER N. LEWIS 73

Leznoff, C.C.
Hydrocarbon specificity for transport on the tricarboxylate transporter of rat liver mitochondria
S. CHEEMA-DHADLI, M.L. HALPERIN, P.R. DUPERROUZEL, and C.C. LEZNOFF 804

Lipnick, R.L.
A comparative proton magnetic resonance conformational study of the tRNA "wobble" nucleosides 5-carboxymethyl-, 5-methoxycarbonylmethyl-, and 5-carbamoylmethyl-uridine
ROBERT L. LIPNICK and JOHN D. FISSEKIS 1355

Lis, L.J.
The effect of cholesterol on measured interaction and compressibility of dipalmitoylphosphatidylcholine bilayers
R.P. RAND, V.A. PARSEGIAN, J.A.C. HENRY, L.J. LIS, and M. MCALISTER 959

Liteplo, R.G.
The stimulation of rat liver microsomal CDP-diacylglycerol formation by guanosine triphosphate
ROBERT G. LITEPLO and MICHAEL SRIBNEY 871

Lo, T.C.Y.
Localization of the dicarboxylate binding protein in the cell envelope of *Escherichia coli* K12
MARY A. BEWICK and THEODORE C.Y. LO 885

Low, R.
Heterogeneous catalysis by phospholipase A_2: mechanism of hydrolysis of gel phase phosphatidylcholine
DAVID O. TINKER, ROSITA LOW, AND MARIA LUCASSEN 898

Lowden, J.A.
Kinetics of rat liver GM_2 ganglioside-β-D-*N*-acetylhexosaminidase
ANTON NOVAK and J. ALEXANDER LOWDEN 82

Lowden, J.A.
The subunit and polypeptide structure of hexosaminidases from human placenta
D. MAHURAN and J.A. LOWDEN 287

Lucassen, M.
Heterogeneous catalysis by phospholipase A_2: mechanism of hydrolysis of gel phase phosphatidylcholine
DAVID O. TINKER, ROSITA LOW, AND MARIA LUCASSEN 898

Lui, A.
DNA sequence organization in the starfish *Dermasterias imbricata*
MICHAEL J. SMITH, A. LUI, K.K. GIBSON, and J.K. ETZKORN 352

Luk, K.F.S.
Evidence for multiple forms of *p*-trifluoromethylbenzenesulfonyl-α-chymotrypsin
M.E. ANDO, J.T. GERIG, K.F.S. LUK, and D.C. ROE 427

Lukey, T.
Purine ribonucleoside and deoxyribonucleoside kinase activities in thymocytes. Specificity and optimal assay conditions for phosphorylation
TREVOR LUKEY and FLOYD F. SNYDER 677

Lygre, D.G.
Inhibition by orthophosphate esters of glucose-6-phosphatase
MICHAEL A. WALLS and DAVID G. LYGRE 673

MacDonald, M.E.
Demonstration with monoclonal antibody of the glycoprotein nature of Thy-1.2 alloantigen
M. LETARTE, J. ADDIS, M.E. MACDONALD, A. BERNSTEIN, and PHIL LAKE 1026

MacIntyre, S.
Identification and characterization of outer membrane fragments released by *Aeromonas* sp.
S. MACINTYRE, T.J. TRUST, and J.T. BUCKLEY 1018

MacLeod, R.A.
Energy coupling to K^+ transport in a marine bacterium
EDWARD G. SEDGWICK and ROBERT A. MACLEOD 1206

Magnan, J.
Synthesis of peptides by the solid-phase method. V. Substance P and analogs
A. FOURNIER, R. COUTURE, J. MAGNAN, M. GENDREAU, D. REGOLI, and S. ST-PIERRE 272

Mahuran, D.
The subunit and polypeptide structure of hexosaminidases from human placenta
D. MAHURAN and J.A. LOWDEN 287

Mak, W.W.-N.
Enhanced sensitivity of tumorigenic cells to rapid rounding induced by phenylalaninol
W. WAI-NAM MAK, LESLIE PINTERIC, and J. TZE-FEI WONG 737

Mak, W.W.-N.
Relationship between membrane fluidity and capping of receptors for concanavalin A
W. WAI-NAM MAK and J. TZE-FEI WONG 1421

Maquestiau, A.
Etude conformationnelle par résonance magnétique nucléaire du carbone 13 de peptides à activité antalgique
ROBERT RENÉ SMOLDERS, ROLAND COOMANS, FRANÇOISE JACQUEMOTTE, YVES VAN HAVERBEKE, ANDRÉ MAQUESTIAU et ROBERT MULLER 1241

Marcel, Y.L.
Purification of human plasma lecithin:cholesterol acyltransferase and its activation by metal ions
GINZABURO SUZUE, CAMILLA VÉZINA, and YVES L. MARCEL 539

Martel, P.
Effect of phosphoenolpyruvate carboxykinase inhibition on renal metabolism of glutamine: in vivo studies in the dog and rat
P. VINAY, F. COUTLÉE, P. MARTEL, G. LEMIEUX, and A. GOUGOUX 103

Martens, M.E.
Fatty acid metabolism in skeletal muscle mitochondria from two strains of dystrophic mice
M.E. MARTENS and C.P. LEE **549**

Martin, W.G.
Identification and partial characterization of an *Escherichia coli* mutant with altered hydrogenase activity
BERNARD R. GLICK, PATRICK Y. WANG, HENRY SCHNEIDER, and WILLIAM G. MARTIN **361**

Matheson, G.K.
Glutamate receptor binding to cat central nervous system membranes
RICHARD A. HEAD, GODFREY TUNNICLIFF, and G. KEITH MATHESON **534**

Matthyssens, G.
The variability, arrangement, and rearrangement of immunoglobulin genes
T.H. RABBITTS, P.H. HAMLYN, G. MATTHYSSENS, and B.A. ROE **176**

Mauldin, D.
Regulation by calmodulin of the calcium affinity of the calcium-transport ATPase in human erythrocytes
B.D. ROUFOGALIS and D. MAULDIN **922**

McAlister, M.
The effect of cholesterol on measured interaction and compressibility of dipalmitoylphosphatidylcholine bilayers
R.P. RAND, V.A. PARSEGIAN, J.A.C. HENRY, L.J. LIS, and M. MCALISTER **959**

McCubbin, W.D.
The effect of temperature on some calcium-binding properties of troponin C and calmodulin
WILLIAM D. MCCUBBIN, MAXWELL T. HINCKE, and C.M. KAY **683**

McMurray, W.C.
Partial purification of diphosphatidylglycerol synthetase from liver mitochondrial membranes
W.C. MCMURRAY and E.C. JARVIS **771**

Mehra, R.
Hepatotrophic effects of insulin on glucose, glycogen, and adenine nucleotides in hepatocytes isolated from fed adult rats
KHURSHEED N. JEEJEEBHOY, JOSEPH HO, RAJNI MEHRA, and ALAN BRUCE-ROBERTSON **1004**

Mes-Hartree, M.
Lipid metabolism during embryonic and early postembryonic development of *Xenopus laevis*
MARY MES-HARTREE and JOHN B. ARMSTRONG **559**

Miki, B.L.A.
Characterization of mononucleosomes and associated glycoproteins from Ehrlich ascites tumour cells
BRIAN L.A. MIKI, JAMES W. GURD, and IAN R. BROWN **1261**

Milczarek, J.J.
The formation of phosphatidylethanolamine from diglyceride by extracts of *Escherichia coli*
P. PROULX, C. TOMALTY, F. LANDRY, and J.J. MILCZAREK **655**

Miller, R.W.
Lipid involvement in oleoyl CoA desaturase activity of *Fusarium oxysporum* microsomes
ALAN C. WILSON, WYMAN C. ADAMS, and RICHARD W. MILLER **97**

Miller, R.W.
Catalysis of exchange of terminal phosphate groups of ATP and ADP by purified nitrogenase proteins
R.W. MILLER, R.L. ROBSON, M.G. YATES, and R.R. EADY **542**

Miller, R.W.
Temperature-induced physical changes in fungal plasma membranes
R.W. MILLER **1138**

Mitranic, M.M.
The influence of various lipids on the activity of bovine milk galactosyltransferase
M.M. MITRANIC and M.A. MOSCARELLO **809**

Mookerjea, S.
Effect of phosphatidylinositol and phosphatidylserine on membrane-bound galactosyltransferase
SAMUEL RATNAM, IAN H. FRASER, and SAILEN MOOKERJEA **58**

Mookerjea, S.
Purification and stabilization of galactosyltransferase from serum and lysolecithin extracted microsomes
IAN H. FRASER, PATRICIA WADDEN, and SAILEN MOOKERJEA **878**

Moore, G.J.
Cleavage of protected amino acids and peptides from benzyl ester resins by transesterification with potassium cyanide in benzyl alcohol
GRAHAM J. MOORE and YAN C. KWOK **641**

Moore, M.
Membrane alterations in acute myocardial ischemia
DAVID V. GODIN, JOHN M. TUCHEK, and MARGO MOORE **777**

Morrissey, P.
Selenium-independent glutathione peroxidase activity in rabbit liver
PAUL MORRISSEY and PETER J. O'BRIEN **1012**

Morse, D.
A comparison of the citrate synthases of *Escherichia coli* and *Acinetobacter anitratum*
DAVID MORSE and HARRY W. DUCKWORTH **696**

Moscarello, M.A.
The influence of various lipids on the activity of bovine milk galactosyltransferase
M.M. MITRANIC and M.A. MOSCARELLO **809**

Moses, G.
D-Glucose and D-gluconate transport in vesicles from *Pseudomonas putida*
AMEERA AL-JOBORE, G. MOSES, and N.F. TAYLOR 1397

Muller, R.
Etude conformationnelle par résonance magnétique nucléaire du carbone 13 de peptides à activité antalgique
ROBERT RENÉ SMOLDERS, ROLAND COOMANS, FRANÇOISE JACQUEMOTTE, YVES VAN HAVERBEKE, ANDRÉ MAQUESTIAU et ROBERT MULLER 1241

Munson, B.
Inhibition of purified wheat germ DNA dependent RNA polymerase by pyran copolymer
ROBERT GREENE and BENJAMIN MUNSON 295

Murray, R.K.
Effects of acute hepatic ischemia on the electrophoretic patterns of the polypeptides and phosphopolypeptides of the microsomal membrane fraction of rat liver
MONIQUE BEHAR-BANNELIER, LES PINTERIC, and ROBERT K. MURRAY 1039

Nagasawa, T.
Cytotoxic activity of unsaturated fatty acids to lymphocytes
K. KAGEYAMA, T. NAGASAWA, S. KIMURA, T. KOBAYASHI, and Y. KINOSHITA 504

Narbaitz, R.
Membrane changes induced by early myocardial ischemia in the dog
S.C. VASDEV, G.P. BIRO, R. NARBAITZ, and K.J. KAKO 1112

Natali, P.G.
Occurrence of globulin-like migrating blood albumins, or GLIMBAL, in pathological rat and human sera
B. SILVESTRINI, P.G. NATALI, B. CATANESE, G. BARILLARI, and P. CORDIALI-FEI 89

Nayar, R.
Phospholipids and membrane transport
P.R. CULLIS, B. DE KRUIJFF, M.J. HOPE, R. NAYAR, and S.L. SCHMID 1091

Neelin, J.M.
Correlation of chromatin composition with metabolic changes in nuclei of primitive erythroid cells from chicken embryos
MICHAEL K. URBAN, JAMES M. NEELIN, and THOMAS W. BETZ 726

Newman, E.B.
In vitro studies on L-serine deaminase activity of *Escherichia coli* K12
E.B. NEWMAN and V. KAPOOR 1292

Ng Kwai Hang, K.F.
Glycosaminoglycans of tissues of the domestic fowl
KWET FANE NG KWAI HANG and PHOEBUS A. ANASTASSIADIS 319

Ng Kwai Hang, K.F.
Studies on the in vivo uptake and incorporation of 1-^{14}C-labeled D-hexosamines in tissues, mucopolysaccharide–peptide complexes, and glycosaminoglycans of the domestic fowl
KWET FANE NG KWAI HANG and PHOEBUS A. ANASTASSIADIS 325

Nicholls, F.
Pathways of cytochrome *c* oxidation by soluble and membrane-bound cytochrome aa_3
P. NICHOLLS, V. HILDEBRANDT, B.C. HILL, F. NICHOLLS, and J.M. WRIGGLESWORTH 969

Nicholls, P.
Cytochrome *c* reduction by cysteine plus copper: a pseudosubstrate system for cytochrome *c* oxidase
BRUCE C. HILL and PETER NICHOLLS 499

Nicholls, P.
Pathways of cytochrome *c* oxidation by soluble and membrane-bound cytochrome aa_3
P. NICHOLLS, V. HILDEBRANDT, B.C. HILL, F. NICHOLLS, and J.M. WRIGGLESWORTH 969

Norris, D.J.
Specificity of xanthine oxidase for nitrogen heteroaromatic cation substrates
JOHN W. BUNTING, KEITH R. LADEROUTE, and DONALD J. NORRIS 49

Norris, D.J.
The pH dependence of xanthine oxidase catalysis in basic solution
JOHN W. BUNTING, KEITH R. LADEROUTE, and DONALD J. NORRIS 394

Novak, A.
Kinetics of rat liver GM_2 ganglioside-β-D-*N*-acetylhexosaminidase
ANTON NOVAK and J. ALEXANDER LOWDEN 82

O'Brien, P.J.
Selenium-independent glutathione peroxidase activity in rabbit liver
PAUL MORRISSEY and PETER J. O'BRIEN 1012

O'Doherty, P.J.A.
Regulation of ethanolamine and choline phosphatide biosynthesis in isolated rat intestinal villus cells
P.J.A. O'DOHERTY 527

Oehlschlager, A.C.
Nitroxide spin-probe study of amphotericin B – ergosterol interaction in egg phosphatidylcholine multilayers
A.C. OEHLSCHLAGER and P. LAKS 978

Owens, T.
Increased cationic fluxes in stimulated lymphocytes of the mouse: response of enriched B- and T-cell subpopulations to B- and T-cell mitogens
TREVOR OWENS and J. GORDIN KAPLAN 831

Owens, T.
Cell interactions in concanavalin A activated cation flux and DNA synthesis of mouse lymphocytes
TREVOR OWENS and J.G. KAPLAN 1314

Pagano, M.
Kinetic study of the interaction between rat haptoglobin and rat liver cathepsin B
M. PAGANO, R. ENGLER, M. GELIN, and M.F. JAYLE **410**

Pagé, M.
A three step purification procedure for human liver ferritin
M. PAGÉ, J. LAGUEUX, and C. GAUTHIER **494**

Pallotta, D.
Yeast, rye, and calf histones. Similarities and differences detected by electrophoretic and immunological methods
ANNE TESSIER, BIRGITTE ROLAND, CLAUDE GAUTHIER, WILLIAM A. ANDERSON, and DOMINICK PALLOTTA **405**

Pallotta, D.
Conformations of calf thymus and rye histones H3 and H4 in aqueous solution by laser Raman spectroscopy
M. PÉZOLET, R. SAVOIE, J.-G. GUILLOT, M. PIGEON-GOSSELIN, and D. PALLOTTA **633**

Pande, S.V.
Inhibition of mitochondrial carnitine–acylcarnitine translocase by sulfobetaines
REHANA PARVIN, TAPAS GOSWAMI, and SHRI V. PANDE **822**

Paquet, A.
Preparation of some long-chain *N*-acyl derivatives of essential amino acids for nutritional studies
ALENKA PAQUET **573**

Paquet, A.
Determination of bioavailability of some long-chain *N*-substituted derivatives of L-methionine and L-lysine
ALENKA PAQUET and GHULAM SARWAR **577**

Parry, D.M.
Renal phosphoenolpyruvate carboxykinase during perturbations of acid–base homeostasis in rats. Immunochemical studies
DAVID M. PARRY and JOHN T. BROSNAN **1298**

Parsegian, V.A.
The effect of cholesterol on measured interaction and compressibility of dipalmitoylphosphatidylcholine bilayers
R.P. RAND, V.A. PARSEGIAN, J.A.C. HENRY, L.J. LIS, and M. MCALISTER **959**

Parvin, R.
Inhibition of mitochondrial carnitine–acylcarnitine translocase by sulfobetaines
REHANA PARVIN, TAPAS GOSWAMI, and SHRI V. PANDE **822**

Pawagi, A.B.
The effect of polypeptide–lipid interactions on the ultraviolet spectrum of the olefinic bonds of the lipid
IAN M. CAMPBELL and ASHA B. PAWAGI **345**

Pearlstone, J.R.
The binding sites of rabbit skeletal troponin-I on troponin-T
JOYCE R. PEARLSTONE and LAWRENCE B. SMILLIE **649**

Pendyala, L.
Guanosine metabolism in *Neurospora crassa*
W.L. GREER, L. PENDYALA, and A.M. WELLMAN **369**

Perdue, J.F.
In cultured chick embryo fibrablasts the hexose transport components are not the 75 000 and 95 000 dalton polypeptides synthesized following glucose deprivation
CEDRIC A. ZALA, MILAGROS SALAS-PRATO, WING-TAT YAN, BATYA BANJO, and JAMES F. PERDUE **1179**

Pézolet, M.
Conformations of calf thymus and rye histones H3 and H4 in aqueous solution by laser Raman spectroscopy
M. PÉZOLET, R. SAVOIE, J.-G. GUILLOT, M. PIGEON-GOSSELIN, and D. PALLOTTA **633**

Pickard, M.A.
Passive diffusion of nucleosides into *Micrococcus sodonensis* membrane vesicles
M.A. PICKARD **457**

Piekarski, J.
Relative suitability of 1-palmitoyl and 1-stearoyl homologues of 1-acyl-*sn*-glycerylphosphorylcholine and different acyl donors for phosphatidylcholine synthesis via acyl-CoA:1-acyl-*sn*-glycero-3-phosphorylcholine acyltransferase in rat lung microsomes
B.J. HOLUB, J. PIEKARSKI, and F. POSSMAYER **434**

Pigeon-Gosselin, M.
Conformations of calf thymus and rye histones H3 and H4 in aqueous solution by laser Raman spectroscopy
M. PÉZOLET, R. SAVOIE, J.-G. GUILLOT, M. PIGEON-GOSSELIN, and D. PALLOTTA **633**

Pik, J.R.
The use of bee venom melittin to assess the topography of membrane vesicles derived from *Paracoccus denitrificans*
JEANETTE R. PIK and HUGH G. LAWFORD **996**

Pinteric, L.
Enhanced sensitivity of tumorigenic cells to rapid rounding induced by phenylalaninol
W. WAI-NAM MAK, LESLIE PINTERIC, and J. TZE-FEI WONG **737**

Pinteric, L.
Effects of acute hepatic ischemia on the electrophoretic patterns of the polypeptides and phosphopolypeptides of the microsomal membrane fraction of rat liver
MONIQUE BEHAR-BANNELIER, LES PINTERIC, and ROBERT K. MURRAY **1039**

Plante, J.
ADP-ribosylation of rye histones
A. LAROCHE, J. PLANTE, G. BEAUMONT, and G.G. POIRIER **692**

Poirier, G.G.
ADP-ribosylation of pancreatic histone H1 and of other histones
G.G. POIRIER and P. SAVARD **509**

Poirier, G.G.
ADP-ribosylation of rye histones
A. LAROCHE, J. PLANTE, G. BEAUMONT, and G.G. POIRIER **692**

Posner, B.I.
Intracellular (Golgi) receptors for insulinlike peptides in rat liver
BARRY I. POSNER, ROBERTO M. GONZALEZ, and HARVEY J. GUYDA 1075

Possmayer, F.
Relative suitability of 1-palmitoyl and 1-stearoyl homologues of 1-acyl-*sn*-glycerylphosphorylcholine and different acyl donors for phosphatidylcholine synthesis via acyl-CoA:1-acyl-*sn*-glycero-3-phosphorylcholine acyltransferase in rat lung microsomes
B.J. HOLUB, J. PIEKARSKI, and F. POSSMAYER 434

Prokopchuk, P.
Membrane orientation of sheep spectrin
P. PROKOPCHUK and A.U. SARGENT 1120

Proulx, P.
The formation of phosphatidylethanolamine from diglyceride by extracts of *Escherichia coli*
P. PROULX, C. TOMALTY, F. LANDRY, and J.J. MILCZAREK 655

Proulx, P.
The uptake and acylation of exogenous lysophosphatidylethanolamine by *Escherichia coli* cells
P. HELLION, F. LANDRY, P.V. SUBBAIAH, and P. PROULX 1381

Pugh, E.L.
Fluorescence polarization studies of rat liver microsomes with altered phospholipid desaturase activities
E.L. PUGH, M. KATES, and A.G. SZABO 952

Rabbitts, T.H.
The variability, arrangement, and rearrangement of immunoglobulin genes
T.H. RABBITTS, P.H. HAMLYN, G. MATTHYSSENS, and B.A. ROE 176

Ralston, I.M.
Horseradish peroxidase. XLII. Oxidations of L-tyrosine and 3,5-diiodo-L-tyrosine by compound II
ISOBEL M. RALSTON and H. BRIAN DUNFORD 1270

Rand, R.P.
The effect of cholesterol on measured interaction and compressibility of dipalmitoylphosphatidylcholine bilayers
R.P. RAND, V.A. PARSEGIAN, J.A.C. HENRY, L.J. LIS, and M. MCALISTER 959

Raney, B.L.
Myogenesis of normal and dystrophic chick embryonic skeletal muscle cells *in vitro*: biosynthesis of plasma membrane proteins
PAUL C. HOLLAND, GEORGE A. CATES, BYRON S. WENGER, and BARBARA L. RANEY 1156

Rank, G.H.
Yeast cell wall, membrane, and soluble marker polypeptides identified by comparative two-dimensional electrophoresis
A.J. ROBERTSON, J.H. GERLACH, G.H. RANK, and L.C. FOWKE 565

Rasilo, M.-L.
Fractionation of large glycopeptides of human teratocarcinoma-derived cells by concanavalin A - Sepharose chromatography
MAIJA-LIISA RASILO 281

Rasilo, M.-L.
Mannose containing glycopeptides of cells derived from human teratocarcinoma (line PA 1)
MAIJA-LIISA RASILO, JORMA WARTIOVAARA, and OSSI RENKONEN 384

Ratnam, S.
Effect of phosphatidylinositol and phosphatidylserine on membrane-bound galactosyltransferase
SAMUEL RATNAM, IAN H. FRASER, and SAILEN MOOKERJEA 58

Regoeczi, E.
Multivalent interaction between asialofetuin and plasma membrane preparations from the rat liver
MARIA T. DEBANNE, ERWIN REGOECZI, and MARK W.C. HATTON 1414

Regoli, D.
Synthesis of peptides by the solid-phase method. V. Substance P and analogs
A. FOURNIER, R. COUTURE, J. MAGNAN, M. GENDREAU, D. REGOLI, and S. ST-PIERRE 272

Renkonen, O.
Mannose containing glycopeptides of cells derived from human teratocarcinoma (line PA 1)
MAIJA-LIISA RASILO, JORMA WARTIOVAARA, and OSSI RENKONEN 384

Riddles, P.W.
Jack bean urease (EC 3.5.1.5). V. On the mechanism of action of urease on urea, formamide, acetamide, *N*-methylurea, and related compounds
NICHOLAS E. DIXON, PETER W. RIDDLES, CARLO GAZZOLA, ROBERT L. BLAKELEY, and BURT ZERNER 1335

Riordan, J.R.
Ordering of bulk membrane lipid or protein promotes activity of plasma membrane Mg^{2+} ATPase
JOHN R. RIORDAN 928

Rip, J.W.
Properties of a dolichol phosphokinase activity associated with rat liver microsomes
JACK W. RIP and KENNETH K. CARROLL 1051

Robertson, A.J.
Yeast cell wall, membrane, and soluble marker polypeptides identified by comparative two-dimensional electrophoresis
A.J. ROBERTSON, J.H. GERLACH, G.H. RANK, and L.C. FOWKE 565

Robinson, J.J.
The effect of amphipaths on the flavin-linked aerobic glycerol-3-phosphate dehydrogenase from *Escherichia coli*
JOHN J. ROBINSON and JOEL H. WEINER 1172

Robson, R.L.
Catalysis of exchange of terminal phosphate groups of ATP and ADP by purified nitrogenase proteins
R.W. MILLER, R.L. ROBSON, M.G. YATES, and R.R. EADY 542

Roe, B.A.
The variability, arrangement, and rearrangement of immunoglobulin genes
T.H. Rabbitts, P.H. Hamlyn, G. Matthyssens, and B.A. Roe **176**

Roe, D.C.
Evidence for multiple forms of *p*-trifluoromethylbenzenesulfonyl-α-chymotrypsin
M.E. Ando, J.T. Gerig, K.F.S. Luk, and D.C. Roe **427**

Roland, B.
Yeast, rye, and calf histones. Similarities and differences detected by electrophoretic and immunological methods
Anne Tessier, Birgitte Roland, Claude Gauthier, William A. Anderson, and Dominick Pallotta **405**

Roncari, D.A.K.
Cyclic AMP metabolism and lipolysis in cultured human adipocyte precursors
Daniel A.K. Roncari, Henry Wang, and Kappu S. Desai **201**

Roomi, M.W.
The PO glycoprotein of peripheral nerve myelin
A. Ishaque, M.W. Roomi, I. Szymanska, S. Kowalski, and E.H. Eylar **913**

Rosado, Y.
Subunit structure of *Trypanosoma cruzi* chromatin
Julieta Rubio, Yolanda Rosado, and Mario Castañeda **1247**

Rosell, K.-G.
Structural determination and serology of the native polysaccharide antigen of type-III group B *Streptococcus*
Harold J. Jennings, Karl-Gunnar Rosell, and Dennis L. Kasper **112**

Roufogalis, B.D.
Regulation by calmodulin of the calcium affinity of the calcium-transport ATPase in human erythrocytes
B.D. Roufogalis and D. Mauldin **922**

Roy, M.
Oxidation of methionine residues in lutropin
Pedro de la Llosa, Amor El Abed, and Marguerite Roy **745**

Rubio, J.
Subunit structure of *Trypanosoma cruzi* chromatin
Julieta Rubio, Yolanda Rosado, and Mario Castañeda **1247**

Ruse, J.L.
Glucagon from the bovine fetal pancreas: chromatographic and electrophoretic characterizations of high molecular weight immunoreactive species
A.K. Tung, J.L. Ruse, and E. Cockburn **707**

St-Pierre, S.
Synthesis of peptides by the solid-phase method. V. Substance P and analogs
A. Fournier, R. Couture, J. Magnan, M. Gendreau, D. Regoli, and S. St-Pierre **272**

Salas-Prato, M.
In cultured chick embryo fibrablasts the hexose transport components are not the 75 000 and 95 000 dalton polypeptides synthesized following glucose deprivation
Cedric A. Zala, Milagros Salas-Prato, Wing-Tat Yan, Batya Banjo, and James F. Perdue **1179**

Saleem, M.
Thyroid hormone regulation of translation in tadpole tail muscle
Mohammed Saleem and Burr G. Atkinson **461**

Sargent, A.U.
Membrane orientation of sheep spectrin
P. Prokopchuk and A.U. Sargent **1120**

Sarwar, G.
Determination of bioavailability of some long-chain *N*-substituted derivatives of L-methionine and L-lysine
Alenka Paquet and Ghulam Sarwar **577**

Savard, P.
ADP-ribosylation of pancreatic histone H1 and of other histones
G.G. Poirier and P. Savard **509**

Savoie, R.
Conformations of calf thymus and rye histones H3 and H4 in aqueous solution by laser Raman spectroscopy
M. Pézolet, R. Savoie, J.-G. Guillot, M. Pigeon-Gosselin, and D. Pallotta **633**

Schachter, H.
Enrichment of sulfogalactosylalkylacylglycerol in a plasma membrane fraction from adult rat testis
Margaret A. Shirley and Harry Schachter **1230**

Schmid, S.L.
Phospholipids and membrane transport
P.R. Cullis, B. de Kruijff, M.J. Hope, R. Nayar, and S.L. Schmid **1091**

Schneider, H.
Identification and partial characterization of an *Escherichia coli* mutant with altered hydrogenase activity
Bernard R. Glick, Patrick Y. Wang, Henry Schneider, and William G. Martin **361**

Schreier, S.
Multiple binding sites for local anesthetics in membranes: characterization of the sites and their equilibria by deuterium NMR of specifically deuterated procaine and tetracaine
Yvan Boulanger, Shirley Schreier, Leonard C. Leitch, and Ian C.P. Smith **986**

Schulman, H.M.
Reticulocyte membrane transferrin receptors
B. Ecarot-Charrier, V.L. Grey, A. Wilczynska, and H.M. Schulman **418**

Schulman, H.M.
Friend erythroleukemia cell membrane transferrin receptors
A. Wilczynska and H.M. Schulman **935**

Sedgwick, E.G.
Energy coupling to K^+ transport in a marine bacterium
Edward G. Sedgwick and Robert A. MacLeod **1206**

Seidah, N.G.
Two large glycoprotein fragments related to the NH_2-terminal part of the adrenocorticotropin–β-lipotropin precursor are the end products of the maturation process in the rat pars intermedia
P. CRINE, N.G. SEIDAH, L. JEANNOTTE, and M. CHRÉTIEN 1318

Sen, A.K.
Activation of ouabain-sensitive *p*-nitrophenylphosphatase by carbachol and c-GMP in rat submandibular gland
MAGGIE M. SHI, D.J. STEWART, and A.K. SEN 1223

Setterfield, G.
Relationship between chromatin structure and replication in mouse L-cells
ROSE SHEININ, G. SETTERFIELD, I. DARDICK, G. KISS, and M. DUBSKY 1359

Severson, D.L.
Properties of a phosphoprotein phosphatase from rat epididymal fat pads: deactivation of hormone-sensitive triglyceride lipase and activation of glycogen synthase in adipose tissue
DAVID L. SEVERSON and SHELLIE SLOAN 243

Sheehan, J.M.
Plasma membrane mediated thymidine transport in AKR spleen cells
PHYLLIS R. STRAUSS, JAMES M. SHEEHAN, and JUDITH TAYLOR 1405

Sheinin, R.
Relationship between chromatin structure and replication in mouse L-cells
ROSE SHEININ, G. SETTERFIELD, I. DARDICK, G. KISS, and M. DUBSKY 1359

Shi, M.M.
Activation of ouabain-sensitive *p*-nitrophenylphosphatase by carbachol and c-GMP in rat submandibular gland
MAGGIE M. SHI, D.J. STEWART, and A.K. SEN 1223

Shirley, M.A.
Enrichment of sulfogalactosylalkylacylglycerol in a plasma membrane fraction from adult rat testis
MARGARET A. SHIRLEY and HARRY SCHACHTER 1230

Siehr, D.J.
Structure and composition of the alkali-insoluble cell wall fraction of *Coprinus macrorhizus* var. *microsporus*
CAREY B. BOTTOM and DONALD J. SIEHR 147

Siehr, D.J.
Erratum: Structure and composition of the alkali-insoluble cell wall fraction of *Coprinus macrorhizus* var. *microsporus*
CAREY B. BOTTOM and DONALD J. SIEHR 1311

Silvestrini, B.
Occurrence of globulin-like migrating blood albumins, or GLIMBAL, in pathological rat and human sera
B. SILVESTRINI, P.G. NATALI, B. CATANESE, G. BARILLARI, and P. CORDIALI-FEI 89

Singer, M.A.
Interaction of four local anesthetics with phospholipid bilayer membranes: permeability effects and possible mechanisms
MICHAEL A. SINGER and MAHENDRA K. JAIN 815

Singer, S.S.
Enzymatic sulfation of steroids. XI. The extensive purification and some properties of hepatic sulfotransferase III from female rats
SANFORD S. SINGER and LAWRENCE BRUNS 660

Skulachev, V.P.
Membrane electricity as a convertible energy currency for the cell
V.P. SKULACHEV 161

Sloan, S.
Properties of a phosphoprotein phosphatase from rat epididymal fat pads: deactivation of hormone-sensitive triglyceride lipase and activation of glycogen synthase in adipose tissue
DAVID L. SEVERSON and SHELLIE SLOAN 243

Smillie, L.B.
The binding sites of rabbit skeletal troponin-I on troponin-T
JOYCE R. PEARLSTONE and LAWRENCE B. SMILLIE 649

Smith, I.C.P.
Multiple binding sites for local anesthetics in membranes: characterization of the sites and their equilibria by deuterium NMR of specifically deuterated procaine and tetracaine
YVAN BOULANGER, SHIRLEY SCHREIER, LEONARD C. LEITCH, and IAN C.P. SMITH 986

Smith, M.J.
DNA sequence organization in the starfish *Dermasterias imbricata*
MICHAEL J. SMITH, A. LUI, K.K. GIBSON, and J.K. ETZKORN 352

Smith, N.B.
Stereochemical substrate requirements of lecithin:cholesterol acyltransferase and its inhibition by enantiomeric lysolecithins
NORMAN B. SMITH and ARNIS KUKSIS 1286

Smith, R.L.
Renal glutamine utilization: glycylglycine stimulation of γ-glutamyltransferase
T.C. WELBOURNE, P.D. DASS, and R.L. SMITH 614

Smolders, R.R.
Etude conformationnelle par résonance magnétique nucléaire du carbone 13 de peptides à activité antalgique
ROBERT RENÉ SMOLDERS, ROLAND COOMANS, FRANÇOISE JACQUEMOTTE, YVES VAN HAVERBEKE, ANDRÉ MAQUESTIAU et ROBERT MULLER 1241

Snyder, F.F.
Purine ribonucleoside and deoxyribonucleoside kinase activities in thymocytes. Specificity and optimal assay conditions for phosphorylation
TREVOR LUKEY and FLOYD F. SNYDER 677

Somers, J.M.
Citrate transport in *Salmonella typhimurium*: studies with 2-fluoro-L-*erythro*-citrate as a substrate
D.M. ASHTON, G.D. SWEET, J.M. SOMERS, and W.W. KAY **797**

Sribney, M.
The stimulation of rat liver microsomal CDP-diacylglycerol formation by guanosine triphosphate
ROBERT G. LITEPLO and MICHAEL SRIBNEY **871**

Stanacev, N.Z.
Synthesis of spin-labelled 2-(16′-(*N*-oxyl-4″, 4″-dimethyloxazolidine)stearoyl)-phosphatidylcholine
D.J. VAUGHAN and N.Z. STANACEV **143**

Stanacev, N.Z.
Reconstitution of lipoproteins. I. Lipid–protein interaction of high density apoproteins, purified apoA-I and apoA-II with dimyristoyl-lecithin and dimyristoyl-lecithin:cholesterol vesicles studied by isomeric spin-labelled lecithins
D.J. VAUGHAN, W.C. BRECKENRIDGE, and N.Z. STANACEV **581**

Stanacev, N.Z.
Reconstitution of lipoproteins. II. Lipid–protein interaction between dimyristoyl-lecithin and dimyristoyl-lecithin:cholesterol vesicles and purified apolipoprotein C-I and C-III_2 studied by isomeric spin-labelled lecithins
D.J. VAUGHAN, W.C. BRECKENRIDGE, and N.Z. STANACEV **592**

Stanacev, N.Z.
Mitochondrial importation of lipids and liponucleotides from microsomes independent of and facilitated by purified cytosol proteins
L. STUHNE-SEKALEC and N.Z. STANACEV **1082**

Steeves, T.
Enzyme I of the phosphoenolpyruvate : sugar phosphotransferase system of *Escherichia coli*. Purification to homogeneity and some properties
E.B. WAYGOOD and T. STEEVES **40**

Stephan, D.
Peroxidase biosynthesis as part of protein synthesis by cultured peanut cells
D. STEPHAN and R.B. VAN HUYSTEE **715**

Stevenson, K.J.
Procion dyes as affinity ligands and reporter groups for dihydrofolate reductase from Walker 256 carcinoma
S.J. JOHNSON, K.J. STEVENSON, and V.S. GUPTA **1252**

Stewart, D.J.
Activation of ouabain-sensitive *p*-nitrophenylphosphatase by carbachol and c-GMP in rat submandibular gland
MAGGIE M. SHI, D.J. STEWART, and A.K. SEN **1223**

Strauss, P.
Plasma membrane mediated thymidine transport in AKR spleen cells
PHYLLIS R. STRAUSS, JAMES M. SHEEHAN, and JUDITH TAYLOR **1405**

Stuhne-Sekalec, L.
Mitochondrial importation of lipids and liponucleotides from microsomes independent of and facilitated by purified cytosol proteins
L. STUHNE-SEKALEC and N.Z. STANACEV **1082**

Subbaiah, P.V.
The uptake and acylation of exogenous lysophosphatidylethanolamine by *Escherichia coli* cells
P. HELLION, F. LANDRY, P.V. SUBBAIAH, and P. PROULX **1381**

Sugiura, M.
Purification of a base-specific ribonuclease Ru from *Rhizopus niveus*
HIROYUKI HORITSU, NORIYUKI TAKIHI, MASAHISA SUGIURA, and MIKIO TOMOYEDA **489**

Suzue, G.
Purification of human plasma lecithin:cholesterol acyltransferase and its activation by metal ions
GINZABURO SUZUE, CAMILLA VÉZINA, and YVES L. MARCEL **539**

Sweet, G.D.
Citrate transport in *Salmonella typhimurium*: studies with 2-fluoro-L-*erythro*-citrate as a substrate
D.M. ASHTON, G.D. SWEET, J.M. SOMERS, and W.W. KAY **797**

Szabo, A.G.
Fluorescence polarization studies of rat liver microsomes with altered phospholipid desaturase activities
E.L. PUGH, M. KATES, and A.G. SZABO **952**

Szymanska, I.
The PO glycoprotein of peripheral nerve myelin
A. ISHAQUE, M.W. ROOMI, I. SZYMANSKA, S. KOWALSKI, and E.H. EYLAR **913**

Taki, T.
Phosphatidylglycerol formation via transphosphatidylation by rat brain extracts
ROBERT J. CHALIFOUR, TAKAO TAKI, and JULIAN N. KANFER **1189**

Takihi, N.
Purification of a base-specific ribonuclease Ru from *Rhizopus niveus*
HIROYUKI HORITSU, NORIYUKI TAKIHI, MASAHISA SUGIURA, and MIKIO TOMOYEDA **489**

Talbot, P.J.
Evidence that Sindbis virus infects BHK-21 cells via a lysosomal route
PIERRE J. TALBOT and DENNIS E. VANCE **1131**

Tam, S.-C.
Modification of hemoglobin upon covalent coupling to dextran: enhanced stability against acid denaturation and reduced affinity for haptoglobin
SIU-CHEUNG TAM and J. TZE-FEI WONG **732**

Taylor, J.
Plasma membrane mediated thymidine transport in AKR spleen cells
PHYLLIS R. STRAUSS, JAMES M. SHEEHAN, and JUDITH TAYLOR 1405

Taylor, N.F.
D-Glucose and D-gluconate transport in vesicles from *Pseudomonas putida*
AMEERA AL-JOBORE, G. MOSES, and N.F. TAYLOR 1397

Tessier, A.
Yeast, rye, and calf histones. Similarities and differences detected by electrophoretic and immunological methods
ANNE TESSIER, BIRGITTE ROLAND, CLAUDE GAUTHIER, WILLIAM A. ANDERSON, and DOMINICK PALLOTTA 405

Tinker, D.O.
Heterogeneous catalysis by phospholipase A_2: mechanism of hydrolysis of gel phase phosphatidylcholine
DAVID O. TINKER, ROSITA LOW, AND MARIA LUCASSEN 898

Tomalty, C.
The formation of phosphatidylethanolamine from diglyceride by extracts of *Escherichia coli*
P. PROULX, C. TOMALTY, F. LANDRY, and J.J. MILCZAREK 655

Tomoyeda, M.
Purification of a base-specific ribonuclease Ru from *Rhizopus niveus*
HIROYUKI HORITSU, NORIYUKI TAKIHI, MASAHISA SUGIURA, and MIKIO TOMOYEDA 489

Toro, L.
Diffusional limitations in liquid-phase reactions catalyzed by enzymes immobilized on porous supports: sucrose inversion by β-fructooxidase immobilized on IRA-93 resin
LUIGI TORO and DOMENICO GAUDIOSO 667

Trust, T.J.
Identification and characterization of outer membrane fragments released by *Aeromonas* sp.
S. MACINTYRE, T.J. TRUST, and J.T. BUCKLEY 1018

Tsui, W.-C.
Amino group reactions of the sulfhydryl reagent methyl methanesulfonothioate. Inactivation of D-3-hydroxybutyrate dehydrogenase and reaction with amines in water
RONALD KLUGER and WING-CHEONG TSUI 629

Tuchek, J.M.
Membrane alterations in acute myocardial ischemia
DAVID V. GODIN, JOHN M. TUCHEK, and MARGO MOORE 777

Tung, A.K.
Glucagon from the bovine fetal pancreas: chromatographic and electrophoretic characterizations of high molecular weight immunoreactive species
A.K. TUNG, J.L. RUSE, and E. COCKBURN 707

Tunnicliff, G.
Glutamate receptor binding to cat central nervous system membranes
RICHARD A. HEAD, GODFREY TUNNICLIFF, and G. KEITH MATHESON 534

Urban, M.K.
Correlation of chromatin composition with metabolic changes in nuclei of primitive erythroid cells from chicken embryos
MICHAEL K. URBAN, JAMES M. NEELIN, and THOMAS W. BETZ 726

Vallet, B.
Calmodulin-dependent myosin light chain kinases from cardiac and smooth muscle: a comparative study
MICHAEL P. WALSH, JEAN-CLAUDE CAVADORE, BERNARD VALLET, and JACQUES G. DEMAILLE 299

Vance, D.E.
Evidence that Sindbis virus infects BHK-21 cells via a lysosomal route
PIERRE J. TALBOT and DENNIS E. VANCE 1131

Van Haverbeke, Y.
Etude conformationnelle par résonance magnétique nucléaire du carbone 13 de peptides à activité antalgique
ROBERT RENÉ SMOLDERS, ROLAND COOMANS, FRANÇOISE JACQUEMOTTE, YVES VAN HAVERBEKE, ANDRÉ MAQUESTIAU et ROBERT MULLER 1241

van Huystee, R.B.
Peroxidase biosynthesis as part of protein synthesis by cultured peanut cells
D. STEPHAN and R.B. VAN HUYSTEE 715

Vasdev, S.C.
Membrane changes induced by early myocardial ischemia in the dog
S.C. VASDEV, G.P. BIRO, R. NARBAITZ, and K.J. KAKO 1112

Vaughan, D.J.
Synthesis of spin-labelled 2-(16′-(*N*-oxyl-4″, 4″-dimethyloxazolidine)stearoyl)-phosphatidylcholine
D.J. VAUGHAN and N.Z. STANACEV 143

Vaughan, D.J.
Reconstitution of lipoproteins. I. Lipid–protein interaction of high density apoproteins, purified apoA-I and apoA-II with dimyristoyl-lecithin and dimyristoyl-lecithin:cholesterol vesicles studied by isomeric spin-labelled lecithins
D.J. VAUGHAN, W.C. BRECKENRIDGE, and N.Z. STANACEV 581

Vaughan, D.J.
Reconstitution of lipoproteins. II. Lipid–protein interaction between dimyristoyl-lecithin and dimyristoyl-lecithin:cholesterol vesicles and purified apolipoprotein C-I and C-III_2 studied by isomeric spin-labelled lecithins
D.J. VAUGHAN, W.C. BRECKENRIDGE, and N.Z. STANACEV 592

Vézina, C.
Purification of human plasma lecithin:cholesterol acyltransferase and its activation by metal ions
GINZABURO SUZUE, CAMILLA VÉZINA, and YVES L. MARCEL 539

Vinay, P.
Effect of phosphoenolpyruvate carboxykinase inhibition on renal metabolism of glutamine: in vivo studies in the dog and rat
P. VINAY, F. COUTLÉE, P. MARTEL, G. LEMIEUX, and A. GOUGOUX **103**

Vinay, P.
Inhibition of renal gluconeogenesis and phospho*enol*pyruvate carboxykinase activity by 3-mercaptopicolinic acid: studies in rat, guinea pig, dog, rabbit, and man
MALCOLM WATFORD, PATRICK VINAY, GUY LEMIEUX, and ANDRÉ GOUGOUX **440**

Vincent, L.
The isolation and properties of a ribonuclease associated with influenza virus
D.J.S. ARORA, L. VINCENT, and J. HILL-SCHUBERT **67**

Wadden, P.
Purification and stabilization of galactosyltransferase from serum and lysolecithin extracted microsomes
IAN H. FRASER, PATRICIA WADDEN, and SAILEN MOOKERJEA **878**

Walls, M.A.
Inhibition by orthophosphate esters of glucose-6-phosphatase
MICHAEL A. WALLS and DAVID G. LYGRE **673**

Walsh, M.P.
Calmodulin-dependent myosin light chain kinases from cardiac and smooth muscle: a comparative study
MICHAEL P. WALSH, JEAN-CLAUDE CAVADORE, BERNARD VALLET, and JACQUES G. DEMAILLE **299**

Wang, H.
Cyclic AMP metabolism and lipolysis in cultured human adipocyte precursors
DANIEL A.K. RONCARI, HENRY WANG, and KAPPU S. DESAI **201**

Wang, P.Y.
Identification and partial characterization of an *Escherichia coli* mutant with altered hydrogenase activity
BERNARD R. GLICK, PATRICK Y. WANG, HENRY SCHNEIDER, and WILLIAM G. MARTIN **361**

Wartiovaara, J.
Mannose containing glycopeptides of cells derived from human teratocarcinoma (line PA 1)
MAIJA-LIISA RASILO, JORMA WARTIOVAARA, and OSSI RENKONEN **384**

Wassall, S.R.
^{13}C and ^{31}P nuclear magnetic resonance of lipid dispersions from human aorta
ROBERT J. CUSHLEY, BRUCE J. FORREST, ASHOK K. GROVER, and STEPHEN R. WASSALL **206**

Watford, M.
Inhibition of renal gluconeogenesis and phospho*enol*pyruvate carboxykinase activity by 3-mercaptopicolinic acid: studies in rat, guinea pig, dog, rabbit, and man
MALCOLM WATFORD, PATRICK VINAY, GUY LEMIEUX, and ANDRÉ GOUGOUX **440**

Waygood, E.B.
Enzyme I of the phosphoenolpyruvate : sugar phosphotransferase system of *Escherichia coli*. Purification to homogeneity and some properties
E.B. WAYGOOD and T. STEEVES **40**

Waygood, E.B.
Resolution of the phospho-*enol*pyruvate:fructose phospho-transferase system of *Escherichia coli* into two components; enzyme $II^{fructose}$ and fructose-induced HPr-like protein (FPr)
E. BRUCE WAYGOOD **1144**

Weiner, J.H.
The effect of amphipaths on the flavin-linked aerobic glycerol-3-phosphate dehydrogenase from *Escherichia coli*
JOHN J. ROBINSON and JOEL H. WEINER **1172**

Welbourne, T.C.
Renal glutamine utilization: glycylglycine stimulation of γ-glutamyltransferase
T.C. WELBOURNE, P.D. DASS, and R.L. SMITH **614**

Wellman, A.M.
Guanosine metabolism in *Neurospora crassa*
W.L. GREER, L. PENDYALA, and A.M. WELLMAN **369**

Wenger, B.S.
Myogenesis of normal and dystrophic chick embryonic skeletal muscle cells *in vitro*: biosynthesis of plasma membrane proteins
PAUL C. HOLLAND, GEORGE A. CATES, BYRON S. WENGER, and BARBARA L. RANEY **1156**

White, G.A.
Inhibition of electron transport and oxidative phosphorylation in plant mitochondria by gladiolic acid and structurally-related aromatic ortho dialdehydes
G.A. WHITE and W.B. ELLIOTT **9**

Wilczynska, A.
Reticulocyte membrane transferrin receptors
B. ECAROT-CHARRIER, V.L. GREY, A. WILCZYNSKA, and H.M. SCHULMAN **418**

Wilczynska, A.
Friend erythroleukemia cell membrane transferrin receptors
A. WILCZYNSKA and H.M. SCHULMAN **935**

Willemot, J.
Purine synthesis *de novo* and its regulation in rat hepatocytes
CHRISTINE DES ROSIERS, MARCEL LALANNE, and JOAN WILLEMOT **599**

Williamson, D.G.
Estrone β-glucosidase activity in human placenta
ROSALIND S. LABOW, DENIS G. WILLIAMSON, and DONALD S. LAYNE **23**

Wilson, A.C.
Lipid involvement in oleoyl CoA desaturase activity of *Fusarium oxysporum* microsomes
ALAN C. WILSON, WYMAN C. ADAMS, and RICHARD W. MILLER **97**

Winzor, D.J.
Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors
NICHOLAS E. DIXON, JOHN A. HINDS, ANN K. FIHELLY, CARLO GAZZOLA, DONALD J. WINZOR, ROBERT L. BLAKELEY, and BURT ZERNER **1323**

Wong, J.T.-F.
Evolutionary relationship between *Halobacterium cutirubrum* and eukaryotes determined by use of aminoacyl-tRNA synthetases as phylogenetic probes
YAU KWOK and J. TZE-FEI WONG **213**

Wong, J.T.-F.
Modification of hemoglobin upon covalent coupling to dextran: enhanced stability against acid denaturation and reduced affinity for haptoglobin
SIU-CHEUNG TAM and J. TZE-FEI WONG **732**

Wong, J.T.-F.
Enhanced sensitivity of tumorigenic cells to rapid rounding induced by phenylalaninol
W. WAI-NAM MAK, LESLIE PINTERIC, and J. TZE-FEI WONG **737**

Wong, J.T.-F.
Relationship between membrane fluidity and capping of receptors for concanavalin A
W. WAI-NAM MAK and J. TZE-FEI WONG **1421**

Wood, J.M.
Amplification of the *put* genes and identification of the *put* gene products in *Escherichia coli* K12
JANET M. WOOD and DAVID ZADWORNY **787**

Wrigglesworth, J.M.
Pathways of cytochrome *c* oxidation by soluble and membrane-bound cytochrome aa_3
P. NICHOLLS, V. HILDEBRANDT, B.C. HILL, F. NICHOLLS, and J.M. WRIGGLESWORTH **969**

Yan, W.-T.
In cultured chick embryo fibrablasts the hexose transport components are not the 75 000 and 95 000 dalton polypeptides synthesized following glucose deprivation
CEDRIC A. ZALA, MILAGROS SALAS-PRATO, WING-TAT YAN, BATYA BANJO, and JAMES F. PERDUE **1179**

Yates, M.G.
Catalysis of exchange of terminal phosphate groups of ATP and ADP by purified nitrogenase proteins
R.W. MILLER, R.L. ROBSON, M.G. YATES, and R.R. EADY **542**

Zadworny, D.
Amplification of the *put* genes and identification of the *put* gene products in *Escherichia coli* K12
JANET M. WOOD and DAVID ZADWORNY **787**

Zala, C.A.
In cultured chick embryo fibrablasts the hexose transport components are not the 75 000 and 95 000 dalton polypeptides synthesized following glucose deprivation
CEDRIC A. ZALA, MILAGROS SALAS-PRATO, WING-TAT YAN, BATYA BANJO, and JAMES F. PERDUE **1179**

Zaror-Behrens, G.
Polypeptide turnover in brown adipose tissue mitochondria during acclimation of rats to cold
JEAN HIMMS-HAGEN, ELIZABETH DITTMAR, and GLORIA ZAROR-BEHRENS **336**

Zbarsky, S.H.
Isolation of deoxyribonuclease II from bovine intestinal mucosa
D. STEPHEN KEYS and S.H. ZBARSKY **749**

Zerner, B.
Jack bean urease (EC 3.5.1.5).I. A simple dry ashing procedure for the microdetermination of trace metals in proteins. The nickel content of urease
NICHOLAS E. DIXON, ROBERT L. BLAKELEY, and BURT ZERNER **469**

Zerner, B.
Jack bean urease (EC 3.5.1.5).II. The relationship between nickel, enzymatic activity, and the "abnormal" ultraviolet spectrum. The nickel content of jack beans
NICHOLAS E. DIXON, CARLO GAZZOLA, COLIN J. ASHER, DENNIS S.W. LEE, ROBERT L. BLAKELEY, and BURT ZERNER **474**

Zerner, B.
Jack bean urease (EC 3.5.1.5).III. The involvement of active-site nickel ion in inhibition by β-mercaptoethanol, phosphoramidate, and fluoride
NICHOLAS E. DIXON, ROBERT L. BLAKELEY, and BURT ZERNER **481**

Zerner, B.
Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors
NICHOLAS E. DIXON, JOHN A. HINDS, ANN K. FIHELLY, CARLO GAZZOLA, DONALD J. WINZOR, ROBERT L. BLAKELEY, and BURT ZERNER **1323**

Zerner, B.
Jack bean urease (EC 3.5.1.5). V. On the mechanism of action of urease on urea, formamide, acetamide, *N*-methylurea, and related compounds
NICHOLAS E. DIXON, PETER W. RIDDLES, CARLO GAZZOLA, ROBERT L. BLAKELEY, and BURT ZERNER **1335**

Zimmerman, A.M.
Experimental determinations of tubulin in the *in vivo* mitotic apparatus of sea urchin zygotes
ARTHUR FORER, D.E. LARSON, and A.M. ZIMMERMAN **1277**

CANADIAN JOURNAL OF BIOCHEMISTRY/

JOURNAL CANADIEN DE BIOCHIMIE

VOLUME 58 (1980)

SUBJECT INDEX/INDEX DES MATIERES

Acetylhexosaminidase liver kinetics ganglioside GM2 82
Acid glycoprotein mannosylation liver 1101
Acidosis phosphoenolpyruvate carboxykinase kidney 1298
Acinetobacter citrate synthase 696
Actin proteolysis protection DNase 1348
Actinin muscle M line 516
Active site urease nickel 481
Acyl amino acid deriv 573
Acyl methionine lysine ester bioavailability 577
Acylation lysophosphatidylethanolamine Escherichia 1381
Acylcarnitine oxidn muscle mitochondria dystrophy 549
Acyltransferase glycerophospholipid cholesterol Aeromonas membrane 1018
Acyltransferase lecithin cholesterol plasma 539
Acyltransferase lecithin cholesterol specificity 1286
Acyltransferase lysolecithin specificity lung microsome 434
AD 32 DNA damage adriamycin 720
Adaptation cold peptide mitochondria adipose 336
Adenine guanosine metab Neurospora 369
Adenine nucleotide exchange nitrogenase 542
Adenine nucleotide liver insulin 1004
Adenosine kinase specificity thymocyte 677
Adenylate cyclase catecholamine obesity 1033
Adipocyte precursor cAMP metab 201
Adipose adenylate cyclase catecholamine 1033
Adipose brown mitochondria cold deacclimation 1057
Adipose cholesterol obesity starvation 1258
Adipose mitochondria peptide cold adaptation 336
Adipose tissue phosphoprotein phosphatase 243
ADP ribosylation histone nucleus pancreas 509
ADP ribosylation rye histone 692
Adriamycin DNA damage AD 32 720
Aeromonas outer membrane fragment 1018
Affinity chromatog dihydrofolate reductase 1252
Affinity chromatog ferritin 494
Affinity chromatog lecithin cholesterol acyltransferase 539
Agarose Procion dye conjugate 1252
AKR mouse thymidine transport splenocyte 1405
Alanine pyruvate kinase conformation 188
Albumin globulinlike serum disease 89
Alc liver mitochondria membrane 1147
Alkyl phosphate inhibition glucose phosphate 673
Allo antigen Thy glycoprotein 1026
Allopurinol inosine formation liver phosphoribosylpyrophosphate 607
Alteromonas potassium transport energy coupling 1206
Amide lysine methionine bioavailability 577
Amidohydrolase glutamine metab kidney 614
Amino acid acyl deriv 573
Amino acid transport Pseudomonas chloramphenicol 1165
Amino group protein reaction methanesulfonothioate 629
Aminoacyl tRNA synthetase phylogenetic probe 213
Ammonium formation kidney phosphoenolpyruvate carboxykinase 103
Amphibian phospholipid metab embryo 559
Amphibian protein formation development thyroid 461
Amphiphile glycerol phosphate dehydrogenase Escherichia 1172
Amphotericin B ergosterol interaction 978
Analgesic proline peptide conformation 1241
Anesthetic local phospholipid bilayer membrane 815
Antifreeze protein shorthorn sculpin 377
Antigen allo Thy glycoprotein 1026
Antigen polysaccharide serol Streptococcus 112
Antitrypsin Z variant oligosaccharide 644
Aorta lipid NMR 206
Apolipoprotein interaction lecithin cholesterol 592
Apolipoprotein reconstitution lecithin cholesterol 581
Asialofetuin binding liver membrane 1414
Atherosclerosis aorta membrane lipid 206
ATPase activation carbachol cGMP 1223
ATPase calcium erythrocyte calmodulin 922
ATPase regulation membrane order 928
Azoferredoxin adenine nucleotide exchange 542
Bacteria membrane electricity review 161
Base exchange phospholipid enzyme review 1370
Benzyl ester resin peptide cleavage 641
BHK21 Sindbis virus lysosome 1131
Bilirubin glucuronidation liver microsome 1302
Bioavailability methionine lysine amide 577
Biochem achievement review 93
Biol membrane transport phospholipid 1091
Biomembrane lipid hydrogen bonding review 755
Brain enzyme phosphatidylglycerol formation 1189
Brain fatty acid nucleus newborn 620
Brain glutamate receptor 534
Brain linoleate isomer metab development 121
Brain synaptosome concanavalin receptor 941
Brown adipose mitochondria cold deacclimation 1057
Calcium ATPase erythrocyte calmodulin 922
Calcium binding troponin heat 683
Calcium transport ionophore peptide 865
Calcium transport membrane phospholipid 1091
Calf histone yeast rye 405
Calmodulin calcium binding heat 683
Calmodulin erythrocyte ATPase calcium 922
Calmodulin myosin light chain kinase 299
cAMP metab adipocyte precursor 201
Carbachol ATPase activation 1223
Carbamoylmethyl uridine conformation 1355
Carbohydrate antigen structure Streptococcus 112
Carbomethoxymethyl uridine conformation 1355
Carbon NMR proline peptide conformation 1241
Carboxykinase phosphoenolpyruvate kidney acidosis 1298
Carboxykinase phosphoenolpyruvate kidney glutamine formation 103
Carboxykinase phosphoenolpyruvate kinetics Escherichia 309
Carboxylate transporter specificity mitochondria 804

Carboxymethyl uridine conformation 1355
Carcinoma Ehrlich nucleosome glycoprotein 1261
Carcinosarcoma dihydrofolate reductase sepn Procion dye 1252
Cardiolipin synthetase mitochondria liver 771
Carnitine acylcarnitine translocase sulfobetaine 822
Carnitine palmityltransferase mitochondria muscle dystrophy 549
Catalyst cyanide peptide resin transesterification 641
Catecholamine adenylate cyclase obesity 1033
Cathepsin B inhibition haptoglobin kinetics 410
Cation activation lecithin cholesterol acyltransferase 539
Cation nitrogen heteroarom xanthine oxidase 49
Cation transport lymphocyte stimulation 831
CD pyruvate kinase 188 194
CDP diglyceride formation microsome GTP 871
Cell membrane elec potential review 161
Cell membrane sperm sulfogalactosylalkylacylglycerol 1230
Cell membrane structure Fusarium temp 1138
Cell shape receptor capping 1421
Cell wall glucan Coprinus 147
Cell wall yeast protein marker 565
cGMP ATPase activation 1223
Chicken tissue glycosaminoglycan 319
Chloramphenicol Pseudomonas amino acid transport 1165
Chloroplast membrane electricity review 161
Cholesterol aorta lipid 206
Cholesterol dipalmitoyllecithin membrane compressibility 959
Cholesterol glucagon lecithin interaction 859
Cholesterol glycerophospholipid acyltransferase Aeromonas membrane 1018
Cholesterol lecithin interaction apolipoprotein 592
Cholesterol lecithin reconstitution apolipoprotein 581
Cholesterol metab obesity starvation 1258
Cholesterol transport intestine villus 1215
Cholesteryl ester aorta lipid 206
Cholinergic nervous system ATPase activation 1223
Chromatin histone ADP ribosylation 509
Chromatin histone embryo erythropoiesis 726
Chromatin structure replication fibroblast 1359
Chromatin subunit structure Trypanosoma 1247
Chromatog affinity dihydrofolate reductase 1252
Chromatog affinity lecithin cholesterol acyltransferase 539
Chromatog ferritin 494
Chymotrypsin deriv multiple form NMR 427
Cibacron dihydrofolate reductase sepn 1252
Citrate synthase Acinetobacter Escherichia 696
Citrate synthase mitochondria muscle dystrophy 549
Citrate transport Salmonella 797
Citrate transporter specificity mitochondria 804
Cleavage peptide benzyl ester resin 641
Cold adaptation peptide mitochondria adipose 336
Cold deacclimation brown adipose mitochondria 1057
Complement concanavalin lymphocyte lysis 1387
Compressibility dipalmitoyllecithin cholesterol membrane 959
Concanavalin complement lymphocyte lysis 1387
Concanavalin receptor brain synaptosome 941
Conformation cytochrome oxidase pH 840
Conformation histone Raman thymus rye 633
Conformation proline peptide carbon NMR 1241
Conformation pyruvate kinase alanine phenylalanine 188
Copper cysteine redn cytochrome c 499
Coprinus glucan cell wall 147
Crosslinking cytochrome oxidase subunit fluoronitrobenzene 219
Crystallog x ray enzyme review 251
Cyanide catalyst peptide resin transesterification 641
Cysteine copper redn cytochrome c 499
Cytidylyltransferase phosphatidate microsome GTP 871
Cytochrome c oxidn oxidase 969
Cytochrome c redn cysteine copper 499
Cytochrome oxidase conformation pH 840
Cytochrome oxidase subunit crosslinking fluoronitrobenzene 219
Cytosol protein mitochondria lipid import 1082
Deacclimation cold brown adipose mitochondria 1057
Deaminase serine Escherichia 1292
Dehydrogenase glycerol phosphate amphiphile Escherichia 1172
Dehydrogenase hydroxybutyrate modification methanesulfonothioate 629
Deoxycytidine kinase specificity thymocyte 677
Deoxyguanosine kinase specificity thymocyte 677
Dermasterias DNA sequence organization 352
Desaturase oleoyl CoA lipid Fusarium 97
Desaturase phospholipid fluidity microsome 952
Development linoleate isomer metab brain 121
Development lipid metab Xenopus 559
Development protein formation amphibian thyroid 461
Dextran Hb complex haptoglobin binding 732
Diagnosis hypertension erythrocyte electrolyte efflux 1069
Dicarboxylate binding protein Escherichia 885
Diffusion enzyme kinetics immobilized 667
Diffusion nucleoside Micrococcus membrane vesicle 457
Diglyceride CDP formation microsome GTP 871
Diglyceride phosphatidylethanolamine formation Escherichia 655
Dihydrofolate reductase sepn carcinosarcoma Procion dye 1252
Diiodotyrosine oxidn peroxidase compd II 1270
Dipalmitoyllecithin cholesterol membrane compressibility 959
Diphosphatidylglycerol synthetase liver 771
DNA damage adriamycin AD 32 720
DNA formation lymphocyte mitogen 1314
DNA sequence organization starfish 352
DNase actin proteolysis protection 1348
DNase II intestine mucosa 749
Dolichol phosphokinase liver microsome 1051
Dye Procion dihydrofolate reductase sepn carcinosarcoma 1252
Dystrophy acylcarnitine oxidn muscle mitochondria 549
Egg mitotic app tubulin Strongylocentrotus 1277
Ehrlich carcinoma nucleosome glycoprotein 1261
Elec potential cell membrane review 161
Electricity membrane mitochondria chloroplast bacteria review 161
Electron transport mitochondria gladiolate 9
Elongation factor EFP Escherichia 1312
Embryo histone chromatin erythropoiesis 726
Embryo lipid metab Xenopus 559
Embryo membrane protein muscular dystrophy 1156
Embryo pancreas glucagon immunoreactive 707
Endeavor future scientific 155
Endoplasmic reticulum protein fibroblast glucose 1179
Energy coupling potassium transport Alteromonas 1206
Enzyme heart membrane ischemia 777
Enzyme I phosphoenolpyruvate sugar phosphotransferase 40
Enzyme kinetics immobilized diffusion 667

Enzyme kinetics review 1
Enzyme review phospholipid base exchange 1370
Enzyme x ray crystallog review 251
Enzymol future problem review 1
Ergosterol amphotericin B interaction 978
Erythrocyte ATPase calcium calmodulin 922
Erythrocyte electrolyte efflux hypertension diagnosis 1069
Erythrocyte membrane spectrin orientation sheep 1120
Erythroleukemia membrane transferrin receptor 935
Erythropoiesis histone chromatin embryo 726
Escherichia citrate synthase 696
Escherichia dicarboxylate binding protein 885
Escherichia elongation factor EFP 1312
Escherichia glycerol phosphate dehydrogenase amphiphile 1172
Escherichia lysophosphatidylethanolamine metab acylation 1381
Escherichia mutant hydrogenase 361
Escherichia phosphatidylethanolamine formation diglyceride 655
Escherichia phosphoenolpyruvate carboxykinase kinetics 309
Escherichia phosphoenolpyruvate fructose phosphotransferase 1144
Escherichia proline transport gene put 787
Escherichia serine deaminase 1292
Escherichia sugar phosphotransferase enzyme I 40
Ester phosphate inhibition glucose phosphatase 673
Estrone glucosidase placenta property 23
Ethanol liver mitochondria membrane 1147
Ethionine poly A polymerase polyribosome 236
Ethionine RNA polyadenylic acid 230
Eukaryote evolution aminoacyl tRNA synthetase 213
Evolution Halobacterium aminoacyl tRNA synthetase 213
Evolution histone 405
Exocytosis membrane phospholipid 1091
Fatty acid brain nucleus newborn 620
Fatty acid toxicity lymphocyte 504
Ferritin purifn liver 494
Fetuin asialo binding liver membrane 1414
Fibroblast chromatin structure replication 1359
Fibroblast protein glucose deprivation 1179
Fibroblast protein phosphorylation mitosis 30
Fluoride inhibition urease 481
Fluoroacetyladriamycin valerate DNA damage 720
Fluorocitrate transport Salmonella 797
Fluoronitrobenzene cytochrome oxidase subunit crosslinking 219
Fructooxidase immobilized kinetics diffusion 667
Fructose phosphotransferase phosphoenolpyruvate Escherichia 1144
Fusarium cell membrane structure temp 1138
Fusarium oleoyl CoA desaturase lipid 97
Future scientific endeavor 155
Galactosyltransferase glycoprotein serum microsome 878
Galactosyltransferase microsome membrane phospholipid 58
Galactosyltransferase regulation phosphatide milk 809
Ganglioside GM2 acetylhexosaminidase kinetics liver 82
Gel chromatog ferritin 494
Gene put Escherichia proline transport 787
Gene variability rearrangement Ig 176
Gladiolate electron transport phosphorylation mitochondria 9
Globulinlike albumin serum disease 89
Glucagon embryo pancreas immunoreactive 707
Glucagon lecithin cholesterol interaction 859
Glucan cell wall Coprinus 147
Glucocorticoid sulfotransferase liver 660
Gluconate transport Pseudomonas 1397
Gluconeogenesis kidney mercaptopicolinate 440
Glucose deprivation fibroblast protein 1179
Glucose phosphatase inhibition phosphate ester 673
Glucose transport liver insulin 1004
Glucose transport Pseudomonas 1397
Glucosidase estrone placenta property 23
Glucuronidation bilirubin liver microsome 1302
Glutamate receptor nervous system 534
Glutamine formation kidney phosphoenolpyruvate carboxykinase 103
Glutamine metab kidney glycylglycine 614
Glutamyltranspeptidase glutamine metab kidney 614
Glutathione peroxidase liver selenium independent 1012
Glyceride aorta lipid 206
Glycerol lecithin phosphatidyl transfer 1189
Glycerol phosphate dehydrogenase amphiphile Escherichia 1172
Glycerophospholipid cholesterol acyltransferase Aeromonas membrane 1018
Glycogen liver insulin 1004
Glycogen synthetase activation phosphoprotein phosphatase 243
Glycopeptide teratocarcinoma 384
Glycopeptide teratocarcinoma monosaccharide 281
Glycopeptide yeast cell wall 565
Glycophorin headgroup oligosaccharide dynamics 1197
Glycoprotein acid mannosylation liver 1101
Glycoprotein fragment proopiomelanocortin maturation pituitary 1318
Glycoprotein galactosyltransferase serum microsome 878
Glycoprotein lectin binding brain 941
Glycoprotein nucleosome carcinoma Ehrlich 1261
Glycoprotein PO myelin 913
Glycoprotein Thy allo antigen 1026
Glycoprotein transferrin receptor reticulocyte 418
Glycosaminoglycan chicken tissue 319
Glycosaminoglycan hexosamine chicken 325
Glycylglycine glutamine metab kidney 614
Golgi insulin like peptide receptor 1075
GTP microsome CDP diglyceride formation 871
Guanine nucleotide adenylate cyclase 1033
Guanosine metab Neurospora 369
Halobacterium evolution aminoacyl tRNA synthetase 213
Haptoglobin binding Hb dextran complex 732
Haptoglobin inhibition cathepsin B kinetics 410
Hb dextran complex haptoglobin binding 732
Heart ischemia phospholipid organelle 1112
Heart membrane enzyme ischemia 777
Heart myosin light chain kinase 299
Heat calcium binding troponin 683
Hepatocyte purine formation regulation 599
Heteroarom nitrogen cation xanthine oxidase 49
Hexosamine glycosaminoglycan chicken 325
Hexosaminidase subunit structure placenta 287
Hexose transport fibroblast protein 1179
Histidine peptidyltransferase ribosome nitrobenzenesulfonate 1345
Histone ADP ribosylation nucleus pancreas 509
Histone ADP ribosylation rye 692
Histone chromatin embryo erythropoiesis 726
Histone conformation Raman thymus rye 633
Histone yeast rye calf 405
HPr like protein Escherichia 1144
Hydrogen bonding lipid biomembrane review 755
Hydrogenase Escherichia mutant 361

Hydroxamate inhibition urease 1323
Hydroxybutyrate dehydrogenase modification methanesulfonothioate 629
Hypertension diagnosis erythrocyte electrolyte efflux 1069
Hypotensive structure relationship substance P 272
Hypoxanthine guanosine metab Neurospora 369
Ig gene variability rearrangement 176
Immobilized enzyme kinetics diffusion 667
Immunoreactive glucagon embryo pancreas 707
Inflammation globulinlike albumin serum 89
Influenza virus RNase 67
Inosine formation liver allopurinol 607
Insulin cAMP metab preadipocyte 201
Insulin glucose transport liver 1004
Insulin like peptide receptor 1075
Intestine mucosa DNase II 749
Intestine phosphatide formation 527
Intestine villus sitosterol cholesterol transport 1215
Ionophore peptide calcium transport 865
Ischemia heart membrane enzyme 777
Ischemia heart phospholipid organelle 1112
Ischemia liver protein microsome membrane 1039
Isoproterenol cAMP metab preadipocyte 201
Kidney gluconeogenesis mercaptopicolinate 440
Kidney glutamine formation phosphoenolpyruvate carboxykinase 103
Kidney glutamine metab glycylglycine 614
Kidney phosphoenolpyruvate carboxykinase acidosis 1298
Kinase myosin light chain calmodulin 299
Kinase protein fibroblast mitosis 30
Kinase purine nucleoside specificity thymocyte 677
Kinase pyruvate conformation alanine phenylalanine 188
Kinase pyruvate kinetics muscle yeast 194
Kinetics enzyme immobilized diffusion 667
Kinetics enzyme review 1
Lecithin cholesterol acyltransferase plasma 539
Lecithin cholesterol acyltransferase specificity 1286
Lecithin cholesterol membrane compressibility 959
Lecithin formation intestine 527
Lecithin glucagon cholesterol interaction 859
Lecithin interaction apolipoprotein cholesterol 592
Lecithin liposome phase behavior 851
Lecithin phosphatidyl transfer glycerol 1189
Lecithin phospholipase A2 mechanism 898
Lecithin reconstitution apolipoprotein cholesterol 581
Lecithin spin labeled 143
Lectin lymphocyte activation inactivation 1387
Lectin modification lymphocyte stimulation 137
Leukemia virus mouse thymidine transport 1405
Linoleate isomer metab brain development 121
Lipase deactivation phosphoprotein phosphatase 243
Lipid aorta NMR 206
Lipid brain nucleus newborn 620
Lipid hydrogen bonding biomembrane review 755
Lipid import mitochondria cytosol protein 1082
Lipid metab embryo Xenopus 559
Lipid oleoyl CoA desaturase Fusarium 97
Lipid protein membrane spin lecithin 143
Lipolysis preadipocyte hormone 201
Liponucleotide import mitochondria cytosol protein 1082
Lipopolysaccharide Aeromonas outer membrane 1018
Lipopolysaccharide Neisseria serogroup 128
Lipoprotein reconstitution lecithin cholesterol 581 592
Liposome calcium transport peptide 865
Liposome cytochrome c oxidase 969
Liposome fluidity cell shape 1421
Liposome lecithin phase behavior 851
Liver acetylhexosaminidase kinetics ganglioside GM2 82
Liver acid glycoprotein mannosylation 1101
Liver diphosphatidylglycerol synthetase 771
Liver ferritin purifn 494
Liver glucocorticoid sulfotransferase 660
Liver glucose transport insulin 1004
Liver inosine formation phosphoribosylpyrophosphate allopurinol 607
Liver insulin like peptide receptor 1075
Liver ischemia protein microsome membrane 1039
Liver membrane asialofetuin binding 1414
Liver microsome bilirubin glucuronidation 1302
Liver microsome CDP diglyceride GTP 871
Liver microsome dolichol phosphokinase 1051
Liver microsome phospholipid fluidity 952
Liver mitochondria membrane ethanol 1147
Liver selenium independent glutathione peroxidase 1012
Local anesthetic phospholipid bilayer membrane 815
Local anesthetic phospholipid membrane 986
Lung microsome lysolecithin acyltransferase specificity 434
Lutropin methionine oxidn 745
Lymphocyte binding phytohemagglutinin deriv 399
Lymphocyte fatty acid toxicity 504
Lymphocyte interaction mitogen response 1314
Lymphocyte stimulation cation transport 831
Lymphocyte stimulation lectin modification 137
Lysine acyl deriv 573
Lysine fatty acid amide bioavailability 577
Lysolecithin acyltransferase specificity lung microsome 434
Lysolecithin enantiomer inhibition acyltransferase 1286
Lysophosphatidylethanolamine metab acylation Escherichia 1381
M line protein muscle 516
Malate transporter specificity mitochondria 804
Mannosylation acid glycoprotein liver 1101
Melittin membrane vesicle topog Paracoccus 996
Membrane biol transport phospholipid 1091
Membrane calcium transport peptide 865
Membrane cell sperm sulfogalactosylalkylacylglycerol 1230
Membrane cytochrome c oxidase 969
Membrane dipalmitoyllecithin cholesterol compressibility 959
Membrane electricity mitochondria chloroplast bacteria review 161
Membrane enzyme heart ischemia 777
Membrane erythrocyte spectrin orientation sheep 1120
Membrane Escherichia lysophosphatidylethanolamine acylation 1381
Membrane fluidity cell shape 1421
Membrane glutamate receptor brain 534
Membrane lipid aorta atherosclerosis 206
Membrane lipid hydrogen bonding review 755
Membrane lipid protein spin lecithin 143
Membrane liver asialofetuin binding 1414
Membrane liver mitochondria ethanol 1147
Membrane microsome galactosyltransferase phospholipid 58
Membrane order ATPase regulation 928
Membrane outer fragment Aeromonas 1018
Membrane phospholipid bilayer local anesthetic 815
Membrane phospholipid local anesthetic 986
Membrane protein microsome liver ischemia 1039
Membrane protein muscular dystrophy embryo 1156
Membrane structure Fusarium temp 1138
Membrane sulfogalactoglycerolipid localization testis 225

Membrane transferrin receptor erythroleukemia 935
Membrane vesicle nucleoside diffusion Micrococcus 457
Membrane vesicle topog Paracoccus melittin 996
Mercaptoethanol inhibition urease 481
Mercaptopicolinate phosphopyruvate carboxykinase 440
Merrifield peptide ester resin transesterification 641
Merrifield prepn substance P analog 272
Methanesulfonothioate reaction protein amino group 629
Methionine acyl deriv 573
Methionine fatty acid amide bioavailability 577
Methionine lutropin oxidn 745
Methyl methanesulfonothioate reaction amino group 629
Methylumbelliferyl glucosidase placenta property 23
Micrococcus nucleoside diffusion membrane vesicle 457
Microsome bilirubin glucuronidation liver 1302
Microsome CDP diglyceride formation GTP 871
Microsome glycoprotein galactosyltransferase 878
Microsome lipid mitochondria exchange 1082
Microsome liver dolichol phosphokinase 1051
Microsome lysolecithin acyltransferase specificity lung 434
Microsome membrane protein liver ischemia 1039
Microsome oleoyl CoA desaturase lipid 97
Microsome phospholipid fluidity desaturase 952
Milk galactosyltransferase regulation phosphatide 809
Milk xanthine oxidase specificity 49
Mitochondria acylcarnitine oxidn muscle dystrophy 549
Mitochondria brown adipose cold deacclimation 1057
Mitochondria carboxylate transporter specificity 804
Mitochondria cardiolipin synthetase liver 771
Mitochondria carnitine translocase sulfobetaine 822
Mitochondria electron transport phosphorylation gladiolate 9
Mitochondria lipid import cytosol protein 1082
Mitochondria liver membrane ethanol 1147
Mitochondria membrane electricity review 161
Mitochondria peptide adipose cold adaptation 336
Mitochondria phospholipid heart ischemia 1112
Mitogen chem modification phytohemagglutinin 399
Mitogen lymphocyte interaction 1314
Mitosis fibroblast protein phosphorylation 30
Mitotic app tubulin sea urchin 1277
Molybdoferredoxin adenine nucleotide exchange 542
Monosaccharide teratocarcinoma glycopeptide 281
Mouse AKR thymidine transport splenocyte 1405
Mouse cation transport lymphocyte 831
mRNA thyroglobulin precursor formation 446
Mucopolysaccharide peptide chicken tissue 319
Mucopolysaccharide peptide complex chicken 325
Muscle acylcarnitine oxidn mitochondria dystrophy 549
Muscle contraction substance P 272
Muscle myosin light chain kinase 299
Muscle protein formation Rana triiodothyronine 461
Muscle protein M line 516
Muscle pyruvate kinase kinetics 194
Muscular dystrophy membrane protein embryo 1156
Myelin PO glycoprotein 913
Myosin light chain kinase calmodulin 299
Myotropic structure relationship substance P 272
Myoxocephalus antifreeze protein 377
Neisseria lipopolysaccharide serogroup 128
Nervous system cholinergic ATPase activation 1223
Nervous system glutamate receptor 534
Neuroglia fatty acid nucleus newborn 620
Neurospora guanosine adenine hypoxanthine metab 369
Newborn fatty acid brain nucleus 620
Nickel content urease microdetn 469
Nickel urease active site 481
Nickel urease activity UV spectra 474
Nitrobenzenesulfonate peptidyltransferase ribosome histidine 1345
Nitrogen heteroarom cation xanthine oxidase 49
Nitrogenase adenine nucleotide exchange 542
Nitrophenylphosphatase ATPase activation salivary 1223
NMR carbon proline peptide conformation 1241
NMR lipid aorta 206
NMR polysaccharide antigen Streptococcus 112
NMR trifluoromethylbenzenesulfonyl chymotrypsin 427
NMR uridine carboxymethyl carbomethoxymethyl carbamoylmethyl 1355
Nucleoside diffusion Micrococcus membrane vesicle 457
Nucleosome carcinoma Ehrlich glycoprotein 1261
Nucleosome structure rearrangement reconstitution 73
Nucleotide adenine exchange nitrogenase 542
Nucleotide adenine liver insulin 1004
Nucleotide guanine adenylate cyclase 1033
Nucleus fatty acid brain newborn 620
Nucleus histone ADP ribosylation pancreas 509
Obesity adenylate cyclase catecholamine 1033
Obesity starvation cholesterol metab 1258
Oleoyl CoA desaturase lipid Fusarium 97
Oligosaccharide antitrypsin Z variant 644
Oligosaccharide dynamics glycophorin headgroup 1197
Order membrane ATPase regulation 928
Orosomucoid mannosylation liver 1101
Outer membrane fragment Aeromonas 1018
Oxidase cytochrome c oxidn 969
Oxidase cytochrome conformation pH 840
Oxidase cytochrome cysteine 499
Oxidase cytochrome subunit crosslinking fluoronitrobenzene 219
Oxidase membrane vesicle Paracoccus melittin 996
Oxidase xanthine kinetics alk pH 394
Oxidase xanthine milk specificity 49
Oxidn acylcarnitine muscle mitochondria dystrophy 549
Oxidn lutropin methionine 745
Oxyldimethyloxazolidine lecithin 143
Palmityltransferase carnitine mitochondria muscle dystrophy 549
Pancreas embryo glucagon immunoreactive 707
Pancreas nucleus histone ADP ribosylation 509
Paracoccus membrane vesicle topog melittin 996
Peanut peroxidase formation ribosome 715
Penicillium beta xylosidase kinetics 5
Peptide ionophore calcium transport 865
Peptide mitochondria adipose cold adaptation 336
Peptide mucopolysaccharide chicken tissue 319
Peptide mucopolysaccharide complex chicken 325
Peptidyltransferase ribosome histidine nitrobenzenesulfonate 1345
Peroxidase compd II tyrosine oxidn 1270
Peroxidase formation peanut ribosome 715
Peroxidase glutathione selenium independent liver 1012
pH cytochrome oxidase conformation 840
pH xanthine oxidase kinetics 394
Phase behavior lecithin liposome 851
Phaseolus phytohemagglutinin covalent modification 137
Phenazine methosulfate glycerol phosphate dehydrogenase 1172

Phenyl phosphate inhibition glucose phosphatase 673
Phenylalanine pyruvate kinase conformation 188
Phenylalaninol cell rounding tumorigenesis 737
Phosphatase glucose inhibition phosphate ester 673
Phosphatase phosphoprotein adipose tissue 243
Phosphate ester inhibition glucose phosphatase 673
Phosphatidate cytidylyltransferase microsome GTP 871
Phosphatide formation intestine 527
Phosphatide galactosyltransferase regulation milk 809
Phosphatidylcholine amphotericin B ergosterol 978
Phosphatidylcholine membrane procaine tetracaine 986
Phosphatidylcholine spin labeled 143
Phosphatidylethanolamine formation diglyceride Escherichia 655
Phosphatidylethanolamine formation intestine 527
Phosphatidylglycerol formation brain enzyme 1189
Phosphoenolpyruvate carboxykinase kidney acidosis 1298
Phosphoenolpyruvate carboxykinase kidney glutamine formation 103
Phosphoenolpyruvate carboxykinase kinetics Escherichia 309
Phosphoenolpyruvate fructose phosphotransferase Escherichia 1144
Phosphoenolpyruvate sugar phosphotransferase enzyme I 40
Phosphokinase dolichol liver microsome 1051
Phospholipase A2 lecithin mechanism 898
Phospholipase D review 1370
Phospholipase D transphosphatidylase brain 1189
Phospholipid Aeromonas outer membrane 1018
Phospholipid base exchange enzyme review 1370
Phospholipid bilayer membrane local anesthetic 815
Phospholipid biol membrane transport 1091
Phospholipid brain nucleus newborn 620
Phospholipid fluidity microsome desaturase 952
Phospholipid heart ischemia organelle 1112
Phospholipid interaction protein UV 345
Phospholipid membrane amphotericin B 978
Phospholipid membrane local anesthetic 986
Phospholipid metab embryo amphibian 559
Phospholipid microsome membrane galactosyltransferase 58
Phosphoprotein phosphatase adipose tissue 243
Phosphopyruvate carboxykinase mercaptopicolinate 440
Phosphoramidate inhibition urease 481
Phosphoribosyl pyrophosphate purine formation 599
Phosphoribosylpyrophosphate liver allopurinol 607
Phosphorylation mitochondria gladiolate 9
Phosphorylation protein fibroblast mitosis 30
Phosphotransferase fructose phosphoenolpyruvate Escherichia 1144
Phosphotransferase phosphoenolpyruvate sugar enzyme I 40
Phylogenetic probe aminoacyl tRNA synthetase 213
Phytohemagglutinin covalent modification Phaseolus 137
Phytohemagglutinin deriv lymphocyte binding 399
Pituitary proopiomelanocortin maturation glycoprotein fragment 1318
Placenta estrone glucosidase property 23
Placenta hexosaminidase subunit structure 287
Plasma lecithin cholesterol acyltransferase 539
PO glycoprotein myelin 913
Poly A polymerase ethionine polyribosome 236
Polyadenylic acid RNA ethionine 230
Polymerase poly A ethionine polyribosome 236
Polymerase RNA inhibition pyran copolymer 295
Polyribosome ethionine poly A polymerase 236
Polysaccharide antigen serol Streptococcus 112
Potassium sodium transport erythrocyte hypertension 1069
Potassium transport Alteromonas energy coupling 1206
Potassium transport lymphocyte mitogen 1314
Procaine phosphatidylcholine membrane 986
Procion dye dihydrofolate reductase sepn carcinosarcoma 1252
Prokaryote evolution aminoacyl tRNA synthetase 213
Proline peptide conformation NMR carbon 1241
Proline transport Escherichia gene put 787
Proopiomelanocortin maturation glycoprotein fragment pituitary 1318
Protein Aeromonas outer membrane 1018
Protein amino group reaction methanesulfonothioate 629
Protein antifreeze shorthorn sculpin 377
Protein binding transferrin erythroleukemia 935
Protein cytosol mitochondria lipid import 1082
Protein dicarboxylate binding Escherichia 885
Protein fibroblast glucose deprivation 1179
Protein formation muscle Rana triiodothyronine 461
Protein formation peanut ribosome 715
Protein HPr like Escherichia 1144
Protein interaction phospholipid UV 345
Protein lipid membrane spin lecithin 143
Protein marker yeast cell wall 565
Protein membrane embryo muscular dystrophy 1156
Protein microsome membrane liver ischemia 1039
Protein muscle M line 516
Protein phosphorylation fibroblast mitosis 30
Protein transferrin receptor reticulocyte 418
Proteinase x ray crystallog review 251
Proteolysis actin protection DNase 1348
Pseudomonas amino acid transport chloramphenicol 1165
Pseudomonas glucose gluconate transport 1397
Purine formation regulation hepatocyte 599
Purine metab liver allopurinol 607
Purine nucleoside kinase specificity thymocyte 677
Pyran copolymer inhibition RNA polymerase 295
Pyruvate kinase conformation alanine phenylalanine 188
Pyruvate kinase kinetics muscle yeast 194
Raman histone conformation thymus rye 633
Rana protein formation muscle triiodothyronine 461
Receptor capping cell shape 1421
Receptor concanavalin brain synaptosome 941
Receptor glutamate nervous system 534
Receptor insulin like peptide 1075
Receptor transferrin erythroleukemia membrane 935
Receptor transferrin reticulocyte 418
Reductase dihydrofolate sepn carcinosarcoma Procion dye 1252
Reticulocyte membrane transferrin receptor 935
Reticulocyte transferrin receptor protein 418
Review biochem achievement 93
Review enzyme x ray crystallog 251
Review enzymol future problem 1
Review lipid hydrogen bonding biomembrane 755
Review membrane electricity mitochondria chloroplast bacteria 161
Review phospholipid base exchange enzyme 1370
Rhizopus RNase 489
Ribosome peptidyltransferase histidine nitrobenzenesulfonate 1345
Ribosome peroxidase formation peanut 715
Ribosylation ADP rye histone 692
RNA polyadenylic acid ethionine 230
RNA polymerase inhibition pyran copolymer 295
RNA transfer aminoacylation phylogenetic probe 213

RNase influenza virus 67
RNase Rhizopus 489
Rye histone ADP ribosylation 692
Rye histone conformation Raman 633
Rye histone yeast calf 405
Salivary ATPase nitrophenylphosphatase activation 1223
Salmonella transport citrate fluorocitrate 797
Sarcolemma phospholipid heart ischemia 1112
Scientific endeavor future 155
Sculpin shorthorn antifreeze protein 377
Sea urchin tubulin mitotic app 1277
Selenium independent glutathione peroxidase liver 1012
Serine deaminase Escherichia 1292
Serogroup Neisseria lipopolysaccharide 128
Serol Streptococcus polysaccharide antigen 112
Serum albumin globulinlike disease 89
Serum fibroblast mitosis 30
Serum glycoprotein galactosyltransferase 878
Sheep spectrin orientation erythrocyte membrane 1120
Shorthorn sculpin antifreeze protein 377
Sindbis virus BHK21 lysosome 1131
Sitosterol cholesterol transport intestine villus 1215
Sodium potassium transport erythrocyte hypertension 1069
Spectrin orientation erythrocyte membrane sheep 1120
Sperm cell membrane sulfogalactosylalkylacylglycerol 1230
Spin labeled lecithin 143
Splenocyte thymidine transport AKR mouse 1405
Starfish DNA sequence organization 352
Starvation obesity cholesterol metab 1258
Steroid sulfotransferase liver 660
Streptococcus polysaccharide antigen serol 112
Strongylocentrotus tubulin mitotic app egg 1277
Structure activity substance P 272
Structure Streptococcus carbohydrate antigen 112
Sturgeon muscle pyruvate kinase kinetics 194
Substance P analog prepn Merrifield 272
Subunit cytochrome oxidase crosslinking fluoronitrobenzene 219
Subunit structure hexosaminidase placenta 287
Sugar phosphotransferase enzyme I 40
Sulfobetaine carnitine acylcarnitine translocase 822
Sulfogalactoglycerolipid localization testis membrane 225
Sulfogalactosylalkylacylglycerol cell membrane sperm 1230
Sulfotransferase glucocorticoid liver 660
Synaptosome brain concanavalin receptor 941
Synthase citrate Acinetobacter Escherichia 696
Synthase citrate mitochondria muscle dystrophy 549
Synthetase aminoacyl tRNA phylogenetic probe 213
Synthetase diphosphatidylglycerol liver 771
Synthetase glycogen activation phosphoprotein phosphatase 243
Temp Fusarium cell membrane structure 1138
Teratocarcinoma glycopeptide 384
Teratocarcinoma glycopeptide monosaccharide 281
Testis membrane sulfogalactosyl lipid sperm 1230
Testis sulfogalactoglycerolipid localization membrane 225
Tetracaine phosphatidylcholine membrane 986
Threonine acyl deriv 573
Thy allo antigen glycoprotein 1026
Thymidine transport splenocyte AKR mouse 1405
Thymocyte purine nucleoside kinase specificity 677
Thymus histone conformation Raman 633
Thyroglobulin precursor formation mRNA 446
Thyroid protein formation amphibian development 461
Transesterification amino acid ester resin 641
Transfer RNA aminoacylation phylogenetic probe 213
Transferrin receptor erythroleukemia membrane 935
Transferrin receptor protein reticulocyte 418
Translocase carnitine acylcarnitine sulfobetaine 822
Transphosphatidylase phosphatidylglycerol brain 1189
Transport amino acid Pseudomonas chloramphenicol 1165
Transport biol membrane phospholipid 1091
Transport calcium ionophore peptide 865
Transport cation lymphocyte stimulation 831
Transport citrate fluorocitrate Salmonella 797
Transport glucose gluconate Pseudomonas 1397
Transport hexose fibroblast protein 1179
Transport lipid mitochondria cytosol protein 1082
Transport potassium Alteromonas energy coupling 1206
Transport potassium sodium erythrocyte hypertension 1069
Transport proline Escherichia gene put 787
Transport sitosterol cholesterol intestine villus 1215
Transport thymidine splenocyte AKR mouse 1405
Transporter carboxylate specificity mitochondria 804
Trifluoromethylbenzenesulfonyl chymotrypsin NMR 427
Triiodothyronine protein formation muscle Rana 461
Troponin calcium binding heat 683
Troponin T I binding site 649
Trypanosoma chromatin subunit structure 1247
Tryptophan acyl deriv 573
Tubulin mitotic app sea urchin 1277
Tumorigenesis cell rounding phenylalaninol 737
Tyrosine oxidn peroxidase compd II 1270
Urease inhibition hydroxamate 1323
Urease inhibition mercaptoethanol phosphoramidate fluoride 481
Urease kinetics mechanism 1335
Urease nickel activity UV spectra 474
Urease nickel content microdetn 469
Uridine carboxymethyl carbomethoxymethyl carbamoylmethyl conformation 1355
UV protein interaction phospholipid 345
UV spectra urease nickel 474
Virus influenza RNase 67
Virus mouse leukemia thymidine transport 1405
Virus Sindbis BHK21 lysosome 1131
Wheat RNA polymerase pyran copolymer 295
X ray crystallog enzyme review 251
Xanthine oxidase kinetics alk pH 394
Xanthine oxidase milk specificity 49
Xenopus lipid metab embryo 559
Xylosidase beta kinetics Penicillium 5
Yeast cell wall protein marker 565
Yeast histone rye calf 405
Yeast pyruvate kinase kinetics 194